



## DHS Polyclonal Antibody

| eIF-5A precursor protein to form the intermediate deoxyhypusine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Reactivity Human;Rat;Mouse;  Applications WB;ELISA  Gene Name DHPS  Protein Name Deoxyhypusine synthase  Immunogen The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100  Specificity DHS Polyclonal Antibody detects endogenous levels of DHS protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm,cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine, cofactor:NAD., function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine molety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue, pathway:Protein modification; eIF5A hypusination, PTM. Phosphorylated upon DNA damage, probably by ATM or ATR., similarity.Belongs to the deoxyhypusine synthase family, subunit-Homotetrame formed by a dimer of | Catalog No         | BYab-02621                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applications WB;ELISA  Gene Name DHPS  Protein Name Deoxyhypusine synthase  Immunogen The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100  Specificity DHS Polyclonal Antibody detects endogenous levels of DHS protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Polyclonal, Rabbit.lgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm.cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine, corfactor:NAD., function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine molety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue, pathway:Protein modification; eIF5A hypusination, PTM:Phosphorylated upon DNA damage, probably by ATM or ATR., similarity-Belongs to the deoxyhypusine synthase family, subunit-Homotetrame formed by a dimer of                              | Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Name Deoxyhypusine synthase  Immunogen The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100  Specificity DHS Polyclonal Antibody detects endogenous levels of DHS protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Polyclonal, Rabbit, IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm,cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  Function catalytic activity;[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine, cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine molety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue of the pathway. Protein modification; eIF5A hypusinaloin, PTM:Phosphorylated upon DNA damage, probably by ATM or ATR., similarity; Belongs to the deoxyhypusine eynthose family, subunit-Homoeteramer formed by a dimer of                                                    | Reactivity         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Name   Deoxyhypusine synthase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Applications       | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen  The antiserum was produced against synthesized peptide derived from human DHPS. AA range:51-100  Specificity  DHS Polyclonal Antibody detects endogenous levels of DHS protein.  Formulation  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source  Polyclonal, Rabbit,IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band  45kD  Cell Pathway  cytoplasm,cytosol,  Tissue Specificity  Blood,Brain,Cervix carcinoma,Lung,  Catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine, cofactor:NAD, function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine molety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue (pathway)-Protein modification, eIF5A hypusination, pTM:Phosphorylated upon DNA damage, probably by ATM or ATR. similarity-Belongs to the deoxyhypusines fromed by a dimer of                                                    | Gene Name          | DHPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DHPS. AA range:51-100  Specificity  DHS Polyclonal Antibody detects endogenous levels of DHS protein.  Formulation  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source  Polyclonal, Rabbit,IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band  45kD  Cell Pathway  cytoplasm,cytosol,  Tissue Specificity  Blood,Brain,Cervix carcinoma,Lung,  Function  catalytic activity:[elF5A-precursor]-lysine + spermidine = [elF5A-precursor]-deoxyhypusine + propane-1,3-diamine, cofactor:NAD, function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine molety of spermidine to the epsilon-amino group of a specific lysine residue of the elF-5A precursor protein to form the intermediate deoxyhypusine elF-5A precursor protein to form the intermediate deoxyhypusine residue, pathway:Protein modification; elF5A hypusination. PTM:Phosphorylated upon DNA damage, probably by ATM or ATR, similarity. Belongs to the deoxyhypusine synthase family, subunit-Homotetramer formed by a dimer of                                                                                                         | Protein Name       | Deoxyhypusine synthase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm,cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  Function catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue, pathway:Protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR_,similarity_Belongs to the deoxyhypusine synthase family, subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                              | Immunogen          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specificity        | DHS Polyclonal Antibody detects endogenous levels of DHS protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm,cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  Function catalytic activity:[elF5A-precursor]-lysine + spermidine = [elF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the elF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; elF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm,cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  Function catalytic activity:[elF5A-precursor]-lysine + spermidine = [elF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the elF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; elF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Purification       | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity ≥90%  Storage Stability -20°C/1 year  Synonyms DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band 45kD  Cell Pathway cytoplasm,cytosol,  Tissue Specificity Blood,Brain,Cervix carcinoma,Lung,  Function catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dilution           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Storage Stability  -20°C/1 year  DHPS; DS; Deoxyhypusine synthase; DHS  Observed Band  45kD  Cell Pathway  cytoplasm,cytosol,  Blood,Brain,Cervix carcinoma,Lung,  Function  catalytic activity:[elF5A-precursor]-lysine + spermidine = [elF5A-precursor]-deoxyhypusine + propane-1,3-diamine_cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the elF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; elF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Observed Band  Cell Pathway  cytoplasm,cytosol,  Tissue Specificity  Blood,Brain,Cervix carcinoma,Lung,  Function  catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cell Pathway  Cytoplasm,cytosol,  Blood,Brain,Cervix carcinoma,Lung,  Catalytic activity:[elF5A-precursor]-lysine + spermidine = [elF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the elF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; elF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Synonyms           | DHPS; DS; Deoxyhypusine synthase; DHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tissue Specificity  Blood,Brain,Cervix carcinoma,Lung,  catalytic activity:[eIF5A-precursor]-lysine + spermidine = [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Observed Band      | 45kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| [eIF5A-precursor]-deoxyhypusine + ' propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tissue Specificity | Blood,Brain,Cervix carcinoma,Lung,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Function           | [eIF5A-precursor]-deoxyhypusine + propane-1,3-diamine.,cofactor:NAD.,function:Catalyzes the NAD-dependent oxidative cleavage of spermidine and the subsequent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the eIF-5A precursor protein to form the intermediate deoxyhypusine residue.,pathway:Protein modification; eIF5A hypusination.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the deoxyhypusine synthase family.,subunit:Homotetramer formed by a dimer of |

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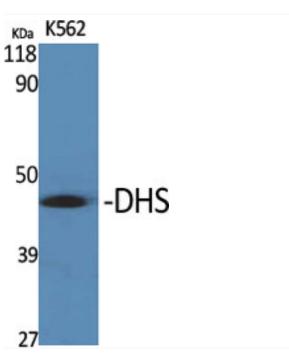


| Background                | This gene encodes a protein that is required for the formation of hypusine, a unique amino acid formed by the posttranslational modification of only one protein, eukaryotic translation initiation factor 5A. The encoded protein catalyzes the first step in hypusine formation by transferring the butylamine moiety of spermidine to a specific lysine residue of the eukaryotic translation initiation factor 5A precursor, forming an intermediate deoxyhypusine residue. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2011], |
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| matters needing attention | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Usage suggestions         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

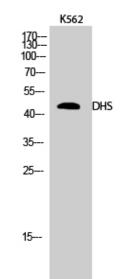




## **Products Images**



Western Blot analysis of various cells using DHS Polyclonal Antibody



Western Blot analysis of K562 cells using DHS Polyclonal Antibody

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