



## ECA39 Polyclonal Antibody

Catalog No         BYab-02870           Isotype         IgG           Reactivity         Human;Mouse;Rat           Applications         WB;IHC;IF;ELISA           Gene Name         BCAT1           Protein Name         Branched-chain-amino-acid aminotransferase, cytosolic           Immunogen         The antiserum was produced against synthesized peptide derived from the Internal region of human BCAT1. AA range:231-280           Specificity         ECA39 Polyclonal Antibody detects endogenous levels of ECA39 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         WB: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. IF 1:50-200           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         BCAT1; BCT1; ECA39; Branched-chain-amino-acid aminotransferase, cytosolic; BCAT(c); Protein ECA39           Observed Band         43kD           Cell Pathway         Cytoplasm.           Tissue Specificity         During embryogenesis, expressed in the brain and kidney. Overexpressed in MrC-induced tumors such as Burkitt's		
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Gene Name BCAT1  Protein Name Branched-chain-amino-acid aminotransferase, cytosolic  Immunogen The antiserum was produced against synthesized peptide derived from the Internal region of human BCAT1. AA range:231-280  Specificity ECA39 Polyclonal Antibody detects endogenous levels of ECA39 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 WB: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000 IF 1:50-200  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms BCAT1; BCT1; ECA39; Branched-chain-amino-acid aminotransferase, cytosolic; BCAT(c); Protein ECA39  Observed Band 43kD  Cell Pathway Cytoplasm.  Tissue Specificity During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma.  Function catalytic activity:2-oxoglutaric acid + L-isoleucine = (S)-3-methyl-2-oxopentanoic acid + L-glutamic acid. catalytic activity:1-leucine + 2-oxoglutaric acid + L-glutamic acid. catalytic activity:1-leucine + 2-oxoglutaric acid + L-glutamate, cofactor:Pyridoxal phosphate; function: Catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine, similarity:Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family, subunit:Homodimer, tissue specificity.During embryogenessis, expressed in the brain and kidney. Overexpressed in characteria and kidney.	Reactivity	Human;Mouse;Rat
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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 WB: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000 IF 1:50-200  Concentration 1 mg/ml  Purity ≥90% Storage Stability -20°C/1 year  Synonyms BCAT1; BCT1; ECA39; Branched-chain-amino-acid aminotransferase, cytosolic; BCAT(c); Protein ECA39  Observed Band 43kD  Cell Pathway Cytoplasm.  Tissue Specificity During embryogenesis, expressed in the brain and kidney. Overexpressed in MYC-induced tumors such as Burkitt's lymphoma.  Function catalytic activity:2-oxoglutaric acid + L-isoleucine = (S)-3-methyl-2-oxopentanoic acid + L-glutamic acid, catalytic activity:L-leucine + 2-oxoglutaric acid + L-glutamic acid, catalytic activity:L-leucine + 2-oxoglutaric acid + L-glutamic acid, catalytic activity:L-leucine + 2-oxoglutaric acid selucine, isoleucine, and valine, similarity:Belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family, subunit.Homodimer, dissue specificity.During embryogenesis, expressed in the brain and kidney. Overexpressed in C-myc induced tumors such as Burkitt's	Immunogen	
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Nanjing BYabscience technology Co.,Ltd

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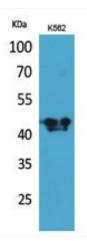


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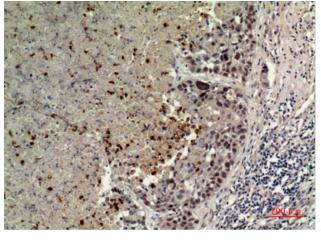


Background	branched chain amino acid transaminase 1(BCAT1) Homo sapiens This gene encodes the cytosolic form of the enzyme branched-chain amino acid transaminase. This enzyme catalyzes the reversible transamination of branched-chain alpha-keto acids to branched-chain L-amino acids essential for cell growth. Two different clinical disorders have been attributed to a defect of branched-chain amino acid transamination: hypervalinemia and hyperleucine-isoleucinemia. As there is also a gene encoding a mitochondrial form of this enzyme, mutations in either gene may contribute to these disorders. Alternatively spliced transcript variants have been described. [provided by RefSeq, May 2010],
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.





Western Blot analysis of K562 cells using ECA39 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100

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