

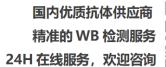


DNA Ligase IV Polyclonal Antibody

DNA Ligase 4. AA range:616-665 Specificity DNA Ligase IV Polyclonal Antibody detects endogenous levels of DNA Ligase IV Polyclonal Antibody detects endogenous levels of DNA Ligase IV Polyclonal, Rabbit, IgG Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB 1:500-2000 IHC: 1/100 - 1/300. ELISA: 1/20000 IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms LIG4; DNA ligase 4; DNA ligase IV; Polydeoxyribonucleotide synthase [ATR Observed Band 133kD Cell Pathway Nucleus Tissue Specificity Testis, thymus, prostate and heart. Function catalytic activity:ATP + (deoxyribonucleotide)(n) + (deoxyribonucleotide)(m) AMP + diphosphate + (deoxyribonucleotide)(m+m), cofactor:Magnesium, disease:Defects in LIG4 cause of severe combined immunodeficiency autosomal recessive T-cell-negative/BA-cell-negative/BA-cell-positive with sensitivity to ionizing radiation (RSSCID) [MIM:602450]. SCID refers to a genetically and clinicall heterogeneous group of rare congenital disorders characterized by impairm both humoral and cell-mediated immunity, leukopenia, and low or absent and the lower and cell-mediated immunity, leukopenia, and low or absent and cell-mediated immunity.		
Reactivity Human;Rat;Mouse; Applications IHC;IF;WB;ELISA Gene Name LIG4 Protein Name DNA ligase 4 Immunogen The antiserum was produced against synthesized peptide derived from humon DNA Ligase 4. AA range;616-665 Specificity DNA Ligase IV Polyclonal Antibody detects endogenous levels of DNA Ligaprotein. 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 1:500-2000 IHC: 1/100 - 1/300. ELISA: 1/20000 IF 1:50-200 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms LIG4; DNA ligase 4; DNA ligase IV; Polydeoxyribonucleotide synthase [ATF Observed Band 133kD Cell Pathway Nucleus. Tissue Specificity Testis, thymus, prostate and heart. Function Catalytic activity: ATP + (deoxyribonucleotide)(n) + (deoxyribonucleotide)(m) + AMP + diphosphate + (deoxyribonucleotide)(m) + (deo	alog No	BYab-00380
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Function catalytic activity:ATP + (deoxyribonucleotide)(n) + (deoxyribonucleotide)(m) AMP + diphosphate + (deoxyribonucleotide)(n+m).,cofactor:Magnesium.,disease:Defects in LIG4 cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-negative/NK-cell-positive with sensitivity to ionizing radiation (RSSCID) [MIM:602450]. SCID refers to a genetically and clinicall heterogeneous group of rare congenital disorders characterized by impairm both humoral and cell-mediated immunity, leukopenia, and low or absent an	Pathway	Nucleus .
AMP + diphosphate + (deoxyribonucleotide)(n+m).,cofactor:Magnesium.,disease:Defects in LIG4 cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-negative/NK-cell-positive with sensitivity to ionizing radiation (RSSCID) [MIM:602450]. SCID refers to a genetically and clinicall heterogeneous group of rare congenital disorders characterized by impairm both humoral and cell-mediated immunity, leukopenia, and low or absent ar	ue Specificity	Testis, thymus, prostate and heart.
by opportunistic organisms. The common characteristic of all types of SCID absence of T-cell-mediated cellular immunity due to a defect in T-cell		(deoxyribonucleotide)(n+m).,cofactor:Magnesium.,disease:Defects in LIG4 are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-negative/NK-cell-positive with sensitivity to ionizing radiation (RSSCID) [MIM:602450]. SCID refers to a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment oboth humoral and cell-mediated immunity, leukopenia, and low or absent antibod levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is

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	ividuals affected by RS-S	CID show defects in	the DNA repair
machinery neces	sary for coding joint		•

Background

The protein encoded by this gene is a DNA ligase that joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. This protein is essential for V(D)J recombination and DNA double-strand break (DSB) repair through nonhomologous end joining (NHEJ). This protein forms a complex with the X-ray repair cross complementing protein 4 (XRCC4), and further interacts with the DNA-dependent protein kinase (DNA-PK). Both XRCC4 and DNA-PK are known to be required for NHEJ. The crystal structure of the complex formed by this protein and XRCC4 has been resolved. Defects in this gene are the cause of LIG4 syndrome. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008],

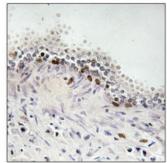
matters needing attention

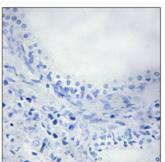
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images





Immunohistochemical analysis of paraffin-embedded Human prostate cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

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