



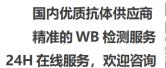
DNA Ligase IV (phospho Thr650) Polyclonal Antibody

Catalog No	BYab-00231		
Isotype	IgG		
Reactivity	Human;Rat;Mouse;		
Applications	IHC;IF;ELISA		
Gene Name	LIG4		
Protein Name	DNA ligase 4		
Immunogen	The antiserum was produced against synthesized peptide derived from human DNA Ligase 4 around the phosphorylation site of Thr650. AA range:616-665		
Specificity	Phospho-DNA Ligase IV (T650) Polyclonal Antibody detects endogenous levels of DNA Ligase IV protein only when phosphorylated at T650.		
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	IHC: 1/100 - 1/300. ELISA: 1/10000 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 [ATP] 4		
Observed Band			
Cell Pathway	Nucleus .		
Tissue Specificity	Testis, thymus, prostate and heart.		
Function	catalytic activity:ATP + (deoxyribonucleotide)(n) + (deoxyribonucleotide)(m) = AMP + diphosphate + (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 of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell		

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		D show defects in the DNA	repair
machinery necessary	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],

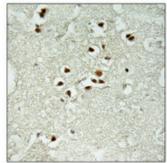
matters needing attention

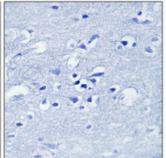
Avoid repeated freezing and thawing!

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 brain. 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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