

DNA Ligase IV (phospho Thr650) rabbit pAb

Cat No.: ES6112

For research use only

Overview

Product Name DNA Ligase IV (phospho Thr650) rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA

Species Cross-Reactivity Human; Rat; Mouse;

Recommended dilutions Immunohistochemistry: 1/100 - 1/300. ELISA:

1/10000. Not yet tested in other applications.

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.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name DNA ligase 4

Gene Name LIG4 **Cellular localization** Nucleus .

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal Concentration 1 mg/ml

Observed band

Human Gene ID 3981 Human Swiss-Prot Number P49917

+86-27-59760950

Alternative Names LIG4; DNA ligase 4; DNA ligase IV;

Polydeoxyribonucleotide synthase [ATP] 4

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

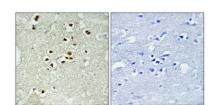
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DNA double-strand break (DSB) repair through nonhomologous end joining (NHEJ). This protein forms a complex with the X-ray repair cross complementing protein 4 (XRCC4), and further interacts with the DNA-dependent protein kinase (DNA-PK). Both XRCC4 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],



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 i

