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Diagnostik & molekulare Diagnostik



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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LIG4 monoclonal antibody (M01), clone 1A4

Catalog # : H00003981-M01

規格 : [100 ug]

List All

Specification

Product Description: Mouse monoclonal antibody raised against a partial recombinant LIG4.

Immunogen: LIG4 (AAH37491, 802 a.a. ~ 911 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence: RYSWDCSPLSMFRRHTVYLDYAVINDLSTKNEGTRLAIKALELRFHGAK
VVSCLAEGVSHVIIGEDHSRVADFKAFRRRTFKRKFKILKESWVTDSIDKCE
LQEENQYLI

Host: Mouse

Reactivity: Human

Isotype: IgG2a kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS:  [Download](#)

Datasheet:  [Download](#)

Applications

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged LIG4 is approximately 3ng/ml as a capture antibody.

 [Protocol Download](#)

ELISA

Gene Information

Entrez GeneID: [3981](#)

GeneBank Accession#: [BC037491](#)

Protein Accession#: [AAH37491](#)

Gene Name: LIG4

Gene Alias: -

Application Image

Sandwich ELISA (Recombinant protein)

ELISA

Gene ligase IV, DNA, ATP-dependent

Description:

Omim ID: [254500](#), [601837](#), [606593](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: 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]

Other Designations: DNA joinase, DNA ligase IV, DNA repair enzyme, polydeoxyribonucleotide synthase [ATP] 4, polynucleotide ligase, sealase

Gene Pathway

[Non-homologous end-joining](#)

Related Disease

[Adenocarcinoma](#) [Ascariasis](#) [Asthma](#) [Asthma](#) [Ataxia telangiectasia](#) [Brain Neoplasms](#) [Breast cancer](#) [Breast Neoplasms](#) [Carcinoma, Basal Cell](#) [Carcinoma, Non-Small-Cell Lung](#) [Carcinoma, Papillary](#) [Carcinoma, Squamous Cell](#) [Colorectal Neoplasms](#) [DNA Damage](#) [Esophageal Neoplasms](#) [Genetic Predisposition to Disease](#) [Genomic Instability](#) [Glioma](#) [Head and Neck Neoplasms](#)

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