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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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LIG4 purified MaxPab mouse polyclonal antibody (B01P) MaxPab®

Catalog # : H00003981-B01P

規格 : [50 ug]

[List All](#)

Specification

Product Description: Mouse polyclonal antibody raised against a full-length human LIG4 protein.

Immunogen: LIG4 (ABM86612.1, 1 a.a. ~ 911 a.a) full-length human protein.

Sequence:
 MAASQTSQTVASHVPFADLCSTLERIQKSKGRAEKIRHFREFLDSWRKF
 HDALHKNHKDVTDSFYFAMRLILPQLERERMAYGIKETMLAKLYIELLNLP
 RDGKDALKLLNYRTPTGTHGDAGDFAMIAYFVLKPRCLQKGSLLTIQQVN
 DLLDSIASNNSAKRKDLIKKSLQLITQSSALEQKWLIRMIKDLKLGVSQQ
 TIFSVFHNDAAELHNVTTDLEKVCRLHDPVGLSDISITLFSAFKPMLAAI
 ADIEHIEKDMKHQSFYIETKLDGERMQMHKGDVYKYFSRNGYNYTDQF
 GASPTGSLTPFIHNAFKADIQICILDGEMMAYNPNTQTFMQKGTKFDIKR
 MVEDSDLQTCYCVFDVLMVNNKLGHETLRKRYEILSSIFPIPGRIEIVQK
 TQAHTKNEVIDALNEAIDKREEGIMVKQPLSIYKPKDRGEGWLKIKPEYVS
 GLMDELDILVGGYWGKSGRGGMMSHFLCAVAEKPPPGEKPSVFHTLS
 RVGSGCTMKELYDLGLKLAKYWKPFHRKAPPSSILCGTEKPEVYIEPCNS
 VIVQIKAAEIVPSDMYKTGCTLRFPRIEKIRDDKEWHECMTLDDLEQLRGK
 ASGLKASKHLYIGGDDEPQEKKRKAAPKMKKVIGIIEHLKAPNLTNVNKISNI
 FEDVEFCVMSGTDSQPKPDLENRIAEFGGYIVQNPDPDTCYVIAGSENIR
 VKNILSNKHVDVVKPAWLLLECFKTKSFVPWQPRFMIHMCPSTKEHFAREY
 DCYGDSYFIDTDLNQLKEVFSGIKNSNEQTPEEMASLIADLEYRYSWDCS
 PLSMFRRHVYLDYAVINDLSTKNEGTRLAIKALELRFHGAKVVSCLAE
 GVSHVIIGEDHSRVADFKAFRRFTFKRKFILKESWVTDSDIKCELQEENQY
 LI

Host: Mouse

Reactivity: Human

Quality Control Testing: Antibody reactive against mammalian transfected lysate.

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](#)

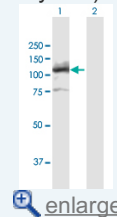
Datasheet:  [Download](#)


Applications

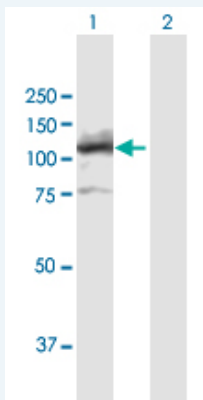
Western Blot (Transfected lysate)

Application Image

Western Blot (Transfected lysate)



 [enlarge](#)



Western Blot analysis of LIG4 expression in transfected 293T cell line ([H00003981-T01](#)) by LIG4 MaxPab polyclonal antibody.

Lane 1: LIG4 transfected lysate(100.21 KDa).

Lane 2: Non-transfected lysate.

Protocol Download

Gene Information

Entrez GeneID: [3981](#)

GeneBank [DQ895686.2](#)

Accession#:

Protein [ABM86612.1](#)

Accession#:

Gene Name: LIG4

Gene Alias: -

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](#)

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