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Datasheet

LIG4 purified MaxPab mouse polyclonal antibody (B01P)

Catalog Number: H00003981-B01P

Regulation Status: For research use only (RUO)

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:
MAASQTSQTVASHVPFADLCSTLERIQKSKGRAEKIRH
FREFLDSWRKFHDALHKNHKDVTDSFYPAMRLILPQL
ERERMAYGIKETMLAKLYIELLNLPRDGKDALKLLNYR
TPTGTHGDAGDFAMIAYFVLKPRCLQKGSLTIQQVNDL
LDSIASNNSAKRKDLIKKSLLQLITQSSALEQKWLIRMII
KDLKLGVSQQTIFSVFHNDAAELHNVTTDLEKVCRQLH
DPSVGLSDISITLFSAFKPMLAAIADIEHIEKDMKHQSFY
IETKLDGERMQMHKDGDVYKYFSRNGYNYTDQFGAS
PTEGSLTPFIHNAFKADIQICILDGEMMAYNPNTQTFM
QKGTKFDIKRMVEDSDLQTCYCVFDVLMVNNKKLGHE
TLRKRYEILSSIFTPIPGRIEIVQKTQAHTKNEVIDALNEA
IDKREEGIMVKQPLSIYKPDKRGEGWLKIKPEYVSGLM
DELDILIVGGYWGKGSRGGMMSHFLCAVAEKPPPGEK
PSVFHTLSRVGSGCTMKELYDLGLKLAKYWKPFHRKA
PPSSILCGTEKPEVYIEPCNSVIVQIKAAEIVPSDMYKT
GCTLRFPRIEKIRDDKEWHECMTLDDLEQLRGKASGK
LASKHLYIGGDDEPQEKKRKAAPKMKKVIGIIEHLKAPN
LTNVNKISNIFEDVEFCVMSGTDSQPKPDLENRIAEFG
GYIVQNPGPDTYCVIAGSENIRVKNIILSNKHDVVKPAW
LLECFKTKSFVPWQPRFMIHMCPSTKEHFAREYDCYG
DSYFIDTDLNQLKEVFSGIKNSNEQTPEEMASLIADLEY
RYSWDCSPLSMFRRHTVYLDSYAVINDLSTKNEGTRL
AIKALELRFHGAKVVSCLAEGVSHVIIGEDHSRVADFKA
FRRTFKRKFKILKESWVTDSIDKCELQEENQYLI

Host: Mouse

Reactivity: Human

Applications: Det Ab, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Storage Buffer: In 1x PBS, pH 7.4

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

Entrez GeneID: 3981

Gene Symbol: LIG4

Gene Alias: -

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]