LIG4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	LIG4, Monoclonal Antibody
Full Product Name	LIG4 (Ligase IV, DNA, ATP-Dependent) (MaxLight 650)
Product Gene Name	anti-LIG4 antibody
Product Synonym Names	Ligase IV; DNA; ATP-Dependent
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1A4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes LIG4.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery o centrifuge the original vial prior to removing the cap.
Immunogen	LIG4 (AAH37491, 802aa-911aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RYSWDCSPLSMFRRHTVYLDSYAVINDLSTKNEGTRLAIKALELRFHGAKVVSCLAEGVSHVIIGEDHSRVADFKAFRRTFKRKFKILKESWVTDSIDKCEL
Conjugate	MaxLight650
Product Categories/Family for anti-LIG4 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-LIG4 antibody	FLISA
Application Notes for anti-LIG4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-LIG4 antibody	The protein encoded by this gene is a DNA ligase that joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reacti protein is essential for V(D)J recombination and DNA double-strand break (DSB) repair through nonhomologous end joining (NHEJ). This protein forms with the X-ray repair cross complementing protein 4 (XRCC4), and further interacts with the DNA-dependent protein kinase (DNA-PK). Both XRCC4 an 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 of LIG4 syndrome. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]
Other Notes	Small volumes of anti-LIG4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.

Searchable Terms for LIG4 purchase	MBS6228532 is an antibody targeting LIG4. Also known as LIG4 (Ligase IV, DNA, ATP-Dependent) (MaxLight 650). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIG4. It may not necessarily be applicable to this product.

NCBI GI #	22766796
NCBI GeneID	3981
NCBI Accession #	AAH37491
UniProt Related Accession #	P49917
NCBI Official Full Name	Ligase IV, DNA, ATP-dependent
NCBI Official Synonym Full Names	DNA ligase 4
NCBI Official Symbol	LIG4
NCBI Official Synonym Symbols	LIG4S
Protein Family	DNA ligase
NCBI Protein Information	DNA ligase 4
Research Articles on LIG4	**1.** Downregulation of LIG4 was consistently associated with de novo myelodysplastic syndrome .
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