PLP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PLP2, Polyclonal Antibody
Full Product Name	PLP2 (Proteolipid Protein 2, Differentiation-Dependent Protein A4, Intestinal Membrane A4 Protein, PLP2, A4) (MaxLight 490)
Product Gene Name	anti-PLP2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PLP2. Species Crossreactivity: human
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	16,691 Da
OMIM	300112
3D Structure	ModBase 3D Structure for Q04941
Immunogen	KLH conjugated synthetic peptide corresponding to aa133-166 at the C-terminal region of human PLP2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-PLP2 antibody	Antibodies; Myelin
Applications Tested/Suitable for anti-PLP2 antibody	Western Blot (WB)
Application Notes for anti-PLP2 antibody	WB: 1:2000 Applications are based on unconjugated antibody.
Related Product Information for anti-PLP2 antibody	MBS6458236 is an antibody targeting PLP2. Also known as PLP2 (Proteolipid Protein 2, Differentiation-Dependent Protein A4, Intestinal Membrane A4 Protein, PLP2, A4) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PLP2 antibody	Oliva M.M., et al. Arch. Biochem. Biophys. 302:183-192(1993). Fisher S.E., et al. Genomics 45:340-347(1997). Kimura K., et al. Genome Res. 16:55-65(2006). Ross M.T., et al. Nature 434:325-337(2005). Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).
Other Notes	Small volumes of anti-PLP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly 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 dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLP2. It may not necessarily be applicable to this product.

NCBI GI #	4505893
NCBI GeneID	5355
NCBI Accession #	NP_002659.1
UniProt Primary Accession #	Q04941
UniProt Secondary Accession #	Q32MM8; A6NDT7
UniProt Related Accession #	Q04941
GenBank Nucleotide #	NM_002668.2
NCBI Official Full Name	proteolipid protein 2
NCBI Official Synonym Full Names	proteolipid protein 2 (colonic epithelium-enriched)
NCBI Official Symbol	PLP2
NCBI Official Synonym Symbols	A4; A4LSB
UniProt Protein Name	Proteolipid protein 2
UniProt Synonym Protein Names	Differentiation-dependent protein A4; Intestinal membrane A4 protein
Protein Family	Patatin-like protein
UniProt Gene Name	PLP2
UniProt Synonym Gene Names	A4
UniProt Entry Name	PLP2_HUMAN
NCBI Protein Information	proteolipid protein 2; intestinal membrane A4 protein; A4 differentiation-dependent protein; differentiation-dependent protein A4
NCBI Summary for PLP2	This gene encodes an integral membrane protein that localizes to the endoplasmic reticulum in colonic epithelial cells. The encoded protein can multimerize and may function as an ion channel. A polymorphism in the promoter of this gene may be linked to an increased risk of X-linked mental retardation. A pseudogene of this gene is found on chromosome 5. [provided by RefSeq, Jan 2010]
UniProt Comments for PLP2	PLP2: May play a role in cell differentiation in the intestinal epithelium. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Endoplasmic reticulum; Membrane protein, multi-pass; Cell development/differentiation Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: endoplasmic reticulum membrane; membrane; endoplasmic reticulum; integral to membrane; plasma membrane Molecular Function: protein binding; ion transmembrane transporter activity; chemokine binding Biological Process: cytokine and chemokine mediated signaling pathway; ion transport; chemotaxis
Research Articles on PLP2	**1.** This work ascribes a critical function to PLP2 for viral ligase activity and underlines the power of non-lethal haploid genetic screens in human cells to identify the genes involved in pathogen manipulation of the host immune system.
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