PTPN4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PTPN4, Monoclonal Antibody
Full Product Name	PTPN4 (Protein Tyrosine Phosphatase, non-Receptor Type 4 (megakaryocyte), PTPMEG, PTPMEG1) (MaxLight 490)
Product Gene Name	anti-PTPN4 antibody
Product Synonym Names	Protein Tyrosine Phosphatase; non-Receptor Type 4 (megakaryocyte); PTPMEG; PTPMEG1
Clonality	Monoclonal
Isotype	IgG3,k
Clone Number	2C8
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes PTPN4.
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 maximu recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	32kDa (280aa)
OMIM	176878
3D Structure	ModBase 3D Structure for P29074
Immunogen	PTPN4 (NP_002821, 361aa-460aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KPLARKLMDWEVVSRNSISDDRLETQSLPSRSPPGTPNHRNSTFTQEGTRLRPSSVGHLVDHMVHTSPSEVFVNQRSPSSTQANSIVLESSPSQETPGD
Conjugate	MaxLight490
Product Categories/Family for anti-PTPN4 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PTPN4 antibody	FLISA, Western Blot (WB)
Application Notes for anti-PTPN4 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-PTPN4 antibody	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This protein contains a C-terminal PTP domain and an N-terminal domain homologous to the band 4.1 superfamily of cytoskeletal-associated proteins. This PTP has been shown to interact with glutamate receptor delta 2 and epsilon subunits, and is thought to play a role in signalling downstream of the glutamate receptors throug tyrosine dephosphorylation. [provided by RefSeq]
Other Notes	Small volumes of anti-PTPN4 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.
Searchable Terms for PTPN4 purchase	MBS6208153 is an antibody targeting PTPN4. Also known as PTPN4 (Protein Tyrosine Phosphatase, non-Receptor Type 4 (megakaryocyte), PTPMEG PTPMEG1) (MaxLight 490). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTPN4. It may not necessarily be applicable to this product.

NCBI GI #	4506295
NCBI GeneID	5775
NCBI Accession #	NP_002821
UniProt Primary Accession #	P29074
UniProt Secondary Accession #	Q9UDA7; B2RBV8
UniProt Related Accession #	P29074
GenBank Nucleotide #	NM_002830.3
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 4
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 4
NCBI Official Symbol	PTPN4
NCBI Official Synonym Symbols	MEG; PTPMEG; PTPMEG1
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 4
UniProt Synonym Protein Names	Protein-tyrosine phosphatase MEG1; MEG; PTPase-MEG1
Protein Family	Tyrosine-protein phosphatase non-receptor
UniProt Gene Name	PTPN4
UniProt Synonym Gene Names	MEG; PTPase-MEG1
UniProt Entry Name	PTN4_HUMAN
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 4
UniProt Comments for PTPN4	PTPN4: May act at junctions between the membrane and the cytoskeleton. Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Protein type: EC 3.1.3.48; Motility/polarity/chemotaxis; Protein phosphatase, tyrosine (non-receptor) Chromosomal Location of Human Ortholog: 2q14.2 Cellular Component: cytoplasm; internal side of plasma membrane Molecular Function: protein binding Biological Process: protein amino acid dephosphorylation

Research Articles on PTPN4	**1.** Binding assays confirmed that three (Cyto8-mtxd-1, Cyto8-mtxk-4 and Cyto8-mtxd-1k-4) out of the five designed peptides exhibit moderately or considerably increased affinity as compared to the native peptide Cyto8-RETEV
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