PTPRN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTPRN, Polyclonal Antibody
Full Product Name	PTPRN, ID (PTPRN, ICA3, ICA512, Receptor-type tyrosine-protein phosphatase-like N, Islet cell antigen 512, Islet cell autoantigen 3, PTP IA-2) (MaxLight 650)
Product Gene Name	anti-PTPRN antibody
Product Synonym Names	PTPRN; ICA3; ICA512; Receptor-type tyrosine-protein phosphatase-like N; Islet cell antigen 512; Islet cell autoantigen 3; PTP IA-2
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 MaxLight650.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human PTPRN.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	96,261 Da
OMIM	601773
3D Structure	ModBase 3D Structure for Q16849
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 288-316 of human PTPRN.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PTPRN antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PTPRN antibody	Western Blot (WB), FLISA
Application Notes for anti-PTPRN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PTPRN 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 PTP possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus.
Product References and Citations for anti-PTPRN antibody	1. Yu, L., et al. J. Immunol. Methods 353 (1-2), 20-23 (2010). 2. Honeyman, M.C., et al. J. Immunol. 184(4):2204-2210(2010). 3. Weenink, S.M., et al. J. Autoimmun. 33(2):147-154(2009). 4. Burbelo, P.D., et al. Diabetes Care 31(9):1824-1826(2008). 5. Williams, A.J., et al. Diabetologia 51(8):1444-1448(2008).

Other Notes	Small volumes of anti-PTPRN 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 PTPRN purchase	MBS6339093 is an antibody targeting PTPRN. Also known as PTPRN, ID (PTPRN, ICA3, ICA512, Receptor-type tyrosine-protein phosphatase-like N, Islet cell antigen 512, Islet cell autoantigen 3, PTP IA-2) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4506321
NCBI GeneID	5798
NCBI Accession #	NP_002837.1
UniProt Primary Accession #	Q16849
UniProt Secondary Accession #	Q08319; Q53QD6; Q6NSL1; B4DK12; F5GZS3
UniProt Related Accession #	Q16849
GenBank Nucleotide #	NM_002846.3
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase-like N isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, N
NCBI Official Symbol	PTPRN
NCBI Official Synonym Symbols	IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase-like N
UniProt Synonym Protein Names	Islet cell antigen 512; ICA 512; Islet cell autoantigen 3; PTP IA-2
Protein Family	Receptor-type tyrosine-protein phosphatase
UniProt Gene Name	PTPRN
UniProt Synonym Gene Names	ICA3; ICA512; R-PTP-N; ICA 512
UniProt Entry Name	PTPRN_HUMAN
NCBI Protein Information	receptor-type tyrosine-protein phosphatase-like N; ICA 512; PTP IA-2; islet cell antigen 2; islet cell antigen 512; islet cell autoantigen 3; protein tyrosine phosphatase-like N
NCBI Summary for PTPRN	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 PTP possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]

UniProt Comments for PTPRN	PTPRN: Implicated in neuroendocrine secretory processes. May be involved in processes specific for neurosecretory granules, such as their biogenesis, trafficking or regulated exocytosis or may have a general role in neuroendocrine functions. Seems to lack intrinsic enzyme activity. May play a role in the regulation of secretory granules via its interaction with SNTB2. Belongs to the protein-tyrosine phosphatase family. Receptor class 8 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor protein phosphatase, tyrosine; Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 2q35-q36.1 Cellular Component: integral to membrane Molecular Function: GTPase binding; protein binding; spectrin binding; protein tyrosine phosphatase activity Biological Process: response to reactive oxygen species; response to cAMP; response to estrogen stimulus; insulin secretion; cytokine and chemokine mediated signaling pathway; response to glucose stimulus; protein amino acid dephosphorylation; response to insulin stimulus
Research Articles on PTPRN	**1.** Humoral responses to islet antigen-2 and zinc transporter 8 are attenuated in patients carrying HLA-A*24 alleles at the onset of type 1 diabetes.
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