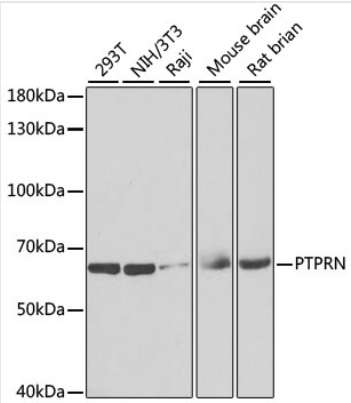
PTPRN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTPRN, Polyclonal Antibody
Full Product Name	PTPRN Rabbit Polyclonal Antibody
Product Gene Name	anti-PTPRN antibody
Product Synonym Names	PTPRN; IA-2; IA-2/PTP; IA2; ICA512; R-PTP-N
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	105,848 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (220154345..220174295, complement). Location: 2q35-q36.1
OMIM	601773
3D Structure	ModBase 3D Structure for Q16849
Immunogen	Recombinant fusion protein of human PTPRN (NP_001186693.1).
Product Categories/Family for anti-PTPRN antibody	Primary Antibody
Applications Tested/Suitable for anti-PTPRN antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PTPRN antibody	WB: 1:500-1:2000 IHC: 1:50-1:100
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. Alternate splicing results in multiple transcript variants.
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	MBS9466048 is an antibody targeting PTPRN. Also known as PTPRN Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PTPRN antibody
Western blot analysis of extracts of various cell lines, using PTPRN at 1:1000 dilution.

ADDITIONAL DETAILS

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

NCBI GI #	47124459
NCBI GeneID	5798
NCBI Accession #	AAH70053.1
UniProt Primary Accession #	Q16849
UniProt Secondary Accession #	Q08319; Q53QD6; Q6NSL1; B4DK12; F5GZS3
UniProt Related Accession #	Q16849
NCBI Official Full Name	PTPRN protein
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

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.** identification of cysteines that are critical for IA-2A binding of autoantibodies in patients with newly diagnosed type 1 diabetes
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