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PTPRZ1 Mouse mAb

Catalog # AP100071

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P23471
Other Accession	P23471
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	254587
Physical State	Liquid
Immunogen	Recombinant human PTPRZ1 protein
Epitope Specificity	26-774/2315
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein-tyrosine phosphatase family. Receptor class 5 subfamily.Contains 1 alpha-carbonic anhydrase domain. Contains 1 fibronectin type-III domain. Contains 2 tyrosine-protein phosphatase domains.
SUBUNIT	The carbonic-anhydrase like domain binds to contactin (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the receptor protein tyrosine phosphatase family. Expression of this gene is restricted to the central nervous system (CNS), and it may be involved in the regulation of specific developmental processes in the CNS. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011]

Additional Information

Gene ID	5803
Other Names	HPTPZ; HPTPzeta; PTP-ZETA; PTP18; PTPRZ; PTPZ; R-PTP-zeta-2; RPTPB; RPTPbeta; phosphacan; DSD-1-PG; PTPbeta; PTPzeta; R-PTP-zeta; RPTPz; PTPzeta-A; PTPzeta-B; PTPzeta-S; PTPRZ_HUMAN; PTPRZ1; Protein-tyrosine phosphatase receptor type Z polypeptide 1; Protein-tyrosine phosphatase receptor type Z polypeptide 2; 3.1.3.48; HTPZP2; PTPRZ2; PTPRZ_RAT; 3F8 chondroitin sulfate proteoglycan; 3H1 keratan sulfate proteoglycan; protein tyrosine phosphatase receptor type Z1; protein tyrosine phosphatase, receptor-type, Z polypeptide 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PTPRZ1
Synonyms	HTPZP2, PTPRZ, PTPRZ2, PTPZ
Function	Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligondendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades (By similarity).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Secreted. Note=A secreted form is apparently generated by shedding of the extracellular domain
Tissue Location	Specifically expressed in the central nervous system, where it is localized in the Purkinje cell layer of the cerebellum, the dentate gyrus, and the subependymal layer of the anterior horn of the lateral ventricle. Developmentally regulated in the brain.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.