PTPRB Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PTPRB, Blocking Peptide
Full Product Name	PTPRB Blocking Peptide
Product Gene Name	PTPRB blocking peptide
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PTPRB peptide (MBS9628861) is used for blocking the activity of PTPRB antibody (MBS9610157)
Molecular Weight	214,505 Da
OMIM	176882
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PTPRB blocking peptide	Blocking/Control
Related Product Information for PTPRB blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PTPRB blocking peptide 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 PTPRB purchase	MBS9628861 is a blocking peptide targeting PTPRB.

ADDITIONAL DETAILS

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

NCBI GI #	157952215
NCBI GeneID	5787
NCBI Accession #	NP_001103224.1
NCBI Related Accession #	NP_002828.3
UniProt Primary Accession #	P23467
UniProt Secondary Accession #	Q14D85; Q3MIV7; B7ZKS8; B7ZKT0; C9JX87; F5H3G6
UniProt Related Accession #	P23467

GenBank Nucleotide #	NM_001109754.3
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase beta isoform a
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type B
NCBI Official Symbol	PTPRB
NCBI Official Synonym Symbols	PTPB; HPTPB; VEPTP; HPTP-BETA; R-PTP-BETA
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase beta
UniProt Synonym Protein Names	Vascular endothelial protein tyrosine phosphatase
Protein Family	Receptor-type tyrosine-protein phosphatase
UniProt Gene Name	PTPRB
UniProt Synonym Gene Names	PTPB; Protein-tyrosine phosphatase beta; R-PTP-beta; VE-PTP
UniProt Entry Name	PTPRB_HUMAN
NCBI Protein Information	receptor-type tyrosine-protein phosphatase beta
NCBI Summary for PTPRB	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 contains an extracellular domain, a single transmembrane segment and one intracytoplasmic catalytic domain, thus belongs to receptor type PTP. The extracellular region of this PTP is composed of multiple fibronectin type_III repeats, which was shown to interact with neuronal receptor and cell adhesion molecules, such as contactin and tenascin C. This protein was also found to interact with sodium channels, and thus may regulate sodium channels by altering tyrosine phosphorylation status. The functions of the interaction partners of this protein implicate the roles of this PTP in cell adhesion, neurite growth, and neuronal differentiation. Alternate transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]
Research Articles on PTPRB	**1.** Results provide evidence that PTPRB and PLCG1 mutations are driving events in a subset of secondary angiosarcomas.
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