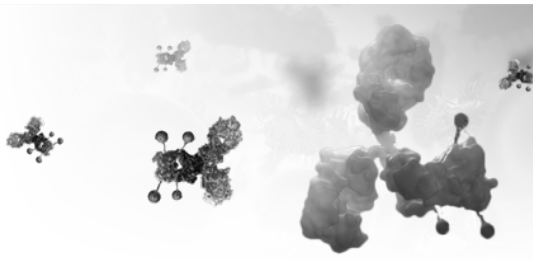

Human PTPRB blocking peptide (CDBP2436)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-PTPRB antibody
Antigen Description	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]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

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Gene Name	PTPRB protein tyrosine phosphatase, receptor type, B [Homo sapiens]
Official Symbol	PTPRB
Synonyms	PTPRB; protein tyrosine phosphatase, receptor type, B; PTPB; receptor-type tyrosine-protein phosphatase beta; VE-PTP; vascular endothelial protein tyrosine phosphatase; protein tyrosine phosphatase, receptor type, beta polypeptide; HPTPB; VEPTP; HPTP-BETA; R-PTP-BETA; FLJ44133; MGC59935; MGC142023; DKFZp686E2262; DKFZp686H15164;
Entrez Gene ID	5787
mRNA Refseq	NM_001109754
Protein Refseq	NP_001103224
UniProt ID	P23467
Chromosome Location	12q15-q21
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem;
Function	hydrolase activity; protein binding; transmembrane receptor protein tyrosine phosphatase activity;

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