

Recombinant Human PTPRB Protein, MYC/DDK-tagged

Cat. No. PTPRB-3128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRB protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	249 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	PTPRB protein tyrosine phosphatase, receptor type, B [Homo sapiens]
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Official Symbol	PTPRB
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Synonyms	HPTP-BETA; HPTPB; PTPB; R-PTP-BETA; VEPTP
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Gene ID	5787
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mRNA Refseq	NM_001109754
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Protein Refseq	NP_001103224
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MIM	176882
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UniProt ID	P23467
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