

Recombinant Human PTPRB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPRB-3318H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPRB MS Standard C13 and N15-labeled recombinant protein (NP_001103224) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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.
Molecular Mass	249 kDa

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AA Sequence

MEAEFYMVILTCLIFRNSEGFQIVHVQKQQCLFKNEKVVVGSCNRTIQNQQWMWTE
DEKLLHVKSALCLAISNSSRGPSPRSAILDRCSQAPRWTCYDQEGFLEVENASLFLQK
QGSRVVVKKARKYLHWSMKIDVNKEGKLVNESLCLQKAGLGAEVSVRSTRNTAPP
QILTTFNAVPDGLVFLIRNTTEAFIRNAAENYSQNSSERQHPNLHMTGITDTSWVLST
TQPFSSSTEETGLAEPERCNFTLAESKASSHSVSIQWRILGSPCNFSLIYSSDTLGAA
LCPTFRIDNTTYGCNLQDLQAGTIYNFRIISLDEERTTVVLQTDPLPPARFGVSKEKTTS
TSLHVWWTPSSGKVTSYEVQLFDENNQKIQGVQIQESTSWNEYTFFNLTAGSKYNI
AITAVSGGKRSFSVYTNGSTVPSVKDIGISTKANSLISWSHGSGNVERYRLMLMD
KGILVHGGVVDKHATSYAFHGLTPGYLYNLTMTEAAGLQNYRWKLVRTAPMEVSN
LKVTNDGSLTSLKVKWQRPPGNVDSYNITLSHKGTIKESRVLAPWITETHFKELVPG
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EQYRILLFNDVSVLLNITVGKEETQYVMDDTGLVPGRQYEVEVIVESGNLKNSERCQ
GRTVPLAVLQLRVKHANETSLSIMWQTPVAEWEKYIISLADRDLIIHKSLSKDAKEF
TFTDLVPGRKYMATVTSISGDLKNSSSVKGRTVPAQVTDLHVANQGMTSSLFTNWT
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VVVEGRTVPSSVSGVTVNNSGRNDYLSVSWLLAPGDVDNYEVTLSHDGKVVQSLVI
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GQYEANEQNGRRTIPEPVKDLTLRNRSTEDLHVTWSGANGDVDQYEIQLLFNDMKV
FPPFHLVNTATEYRFTSLTPGRQYKILVLTISGDVQQSAFIEGFTVPSAVKNIHISPNG
ATDSLTVNWTGGGDVDSYTVSAFRHSQKVDSQTIPKHVFEHTFHRLEAGEQYQIM
IASVSGSLKNQINVVGRTVPASVQGVADNAYSSYSLIVSWQKAAGVAERYDILLTE
NGILLRNTSEPATTQHKFEDLTPGKKYKIQLTVSGGLFSKEAQTEGRTVPAAVTDL
RITENSTRHLSFRWTASEGELSWYNIFLYNPDGNLQERAQVDPLVQSFSFQNLQGG
RMYKMVIVTHSGELSNESFIFGRTVPASVSHLRGSRNRTTDSLWFNWSPASGDFDF
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CSWIPPDSDFDGYSIECRKMDTQEVEFSRKLEKEKSLLNIMMLVPHKRYLVSIVQS
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FTVVVREADGSDELKPEQQHPLPSYLEYRHNASIRVYQTNYFASKCAENPNSNSKS
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 QSCDIALLPENRGKNRYNNILPYDATRVKLSNVDDDDPCSDYINASYIPGNNFRREYIV
 TQGPLPGTKDDFWKMWWEQNVHNIVMVTQCVEKGRVKCDHYWPADQDSLYYGDL
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 VRDYINRSPGAGPTVVHCSAGVGRGTGTFIALDRILQQLDKSDSVDIYGAVHDLRLHR
 VHMVQTECQYVYLHQCVRDVLARKLRSEQENPLFIYENVNPEYHRDPVYSRHRTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PTPRB protein tyrosine phosphatase receptor type B [Homo sapiens (human)]

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;

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VEPTP; HPTP-BETA; R-PTP-BETA; FLJ44133; MGC59935; MGC142023;
DKFZp686E2262; DKFZp686H15164;

Gene ID 5787

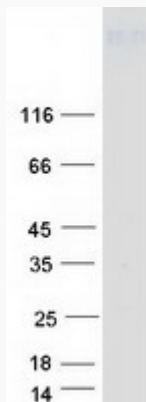
mRNA Refseq NM_001109754

Protein Refseq NP_001103224

MIM 176882

UniProt ID P23467

SDS-PAGE



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