

Recombinant Full Length Human PTPRB Protein, C-Flag-tagged

Cat. No. PTPRB-744HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PTPRB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.

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Molecular Mass	249 kDa
AA Sequence	MEAEFYMVILTCLIFRNSEGFQIVHVQKQQCLFKNEKVVVGSCNRTIQNQQWMWTE DEKLLHVKSALCLA ISNSSRGPSRSAILDRCSQAPRWTCYDQEGFLEVENASLFLQK QGSRVVVKKARKYLHWSMKIDVNKEGK LVNESLCLQKAGLGAEVSVRSTRNTAPP QILTTFNAVDPGLVFLIRNTTEAFIRNAAENYSQNSSERQHP NLHMTGITDTSWVLST TQPFSSSTEETGLAEPERCNFTLAESKASSHSVSIQWRILGSPCNFSLIYSSDT LGAA LCPTFRIDNTTYGCNLQDLQAGTIYNFRIISLDEERTTVVLQTDPLPPARFGVSKEKTTS TSLHVWW TPSSGKVTSYEVQLFDENNQKIQGVQIQESTSWNEYTFFNLTAGSKYNI AITAVSGGKRSFSVYTNGSTV PSPVKDIGISTKANSLISWSHGSGNVERYRLMLMD KGILVHGGVVDKHATSYAFHGLTPGYLYNLTVMT EAAGLQNYRWKLVRTAPMEVS NLKVTNDGSLTSLKVKWQRPPGNVDSYNITLSHKGTIKESRVLAPWITE THFKELVP GRLYQVTVSCVSGELSAQKMAVGRTFPDKVANLEANNGRMRLVSVSWSPAGD WEQYRILL FNDSVLLNITVGKEETQYVMDDTGLVPGRQYEVEVIVESGNLKNSE CQGRTPPLAVLQLRVKHANETS LSIMWQTPVAEWEKYIISLADRDLIIHKSLSKDAK EFTFTDLVPGRKYMATVTSISGDLKNSSSVKGRT VPAQVTDLHVANQGMTSSLFTN WTQAQGDVEFYQVLLIHENNVIKNESISSETSRYSFHSLSKSGSLYSV VTTVSGGISS RQVVVEGRTVPSSVSGVTVNNSGRNDYLSVSWLLAPGDVDNYEVLTHSHDGKVVQS LVIK SVRECSFSSLTPGRLYTVTITTRSGKYENHSFSQERTVPDKVQGVSVNSAR SDYLRVSWVHATGDFDHY EVTIKNKNNFIQTKSIPKSENECVFVQLVPGRLYSVTVT TKSGQYEANEQNGRTIPEPVKDLTLRNRST EDLHVTWSGANGDVDQYEIQLLFND MKVFPPFHLVNTATEYRFTSLTPGRQYKILVLTISGDVQQSAFIE GFTVPSAVKNIHIS PNGATDSLTVNWTGPGGDVDSYTVSAFRHSQKVDSQTIPKHVFEHTFHRLEAGEQ Y QIMIASVSGSLKNQINVVGRTPASVQGVADNAYSSYSLIVSWQKAAGVAERYDIL LLTENGILLRNTS EPATTKQHKFEDLTPGKKYKIQILTVSGGLFSKEAQTEGRTVPAA VTDLRITENSTRHLSFRWTASEGEL SWYNIFLYNPDGNLQERAQVDPLVQSFSFQN LLQGRMYKMVIVTHSGELSNESFIFGRTPASVSHLRGS NRNTTDSLWFWNWPAS GDFDFYELILYNPNGTKKENWKDKDLTEWRFQGLVPGRKYVLWVWTHSGDLSNK V TAESRTAPSPPSLMSFADIANTSLAITWKGPPDWDYNDYFELQWLPRDALTVFNPYN NRKSEGRIVYGL RPGRSYQFNVKTVSGDSWKTYSKPIFGSVRTKPKDKIQLHCRPQ

NSTAIACSWIPPDSDFDGYSIECRKM DTQEVEFSRKLEKEKSLLNIMMLVPHKRYLV
 SIKVQSAGMTSEVVEDSTITMIDRPPPPPPHIRVNEKDV LISKSSINFTVNCWFSDT
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 FTKPLYSD TFFSLPITTESEPLFGAIEGVSAGLFLIGMLVAVVALLICRQKVSHGRERP
 SARLSIRRRDRPLSVHLNLG QKGNRKTS CPIKINQFEGHFMKLQADSNYLLSKEYEEL
 KDVGRNQSCDIALLPENRGKNRYNNILPYDAT RVKLSNVDDDDPCSDYINASYIPGNN
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 LIQ FVRTVRDYINRSPGAGPTVVHCSAGVGRTGTFIALDRILQQLDKDSVDIYGAVH
 DLRLHRVHVMVQTECQ
 YVYLHQCVRDVLRARKLRSEQENPLFPIYENVNPEYHRDPVYSRHTRTRPLEQKLIS
 EEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Phosphatase
Protein Pathways	Adherens junction

Full Length
Full L.

GENE INFORMATION

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

Official Symbol PTPRB

Synonyms PTPB; HPTPB; VEPTP; HPTP-BETA; R-PTP-BETA

Gene ID 5787

mRNA Refseq NM_001109754.4

Protein Refseq NP_001103224.1

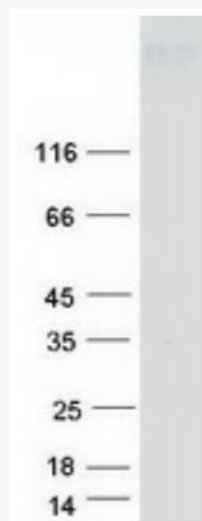
MIM 176882

UniProt ID P23467

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Coomassie blue staining of purified PTPRB protein.

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