

Product datasheet for **TP326479L**

PTPRB (NM_001109754) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, receptor type, B (PTPRB), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T



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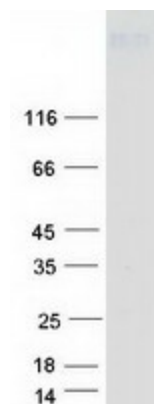
Expression cDNA Clone >RC226479 representing NM_001109754
 or AA Sequence: Red=Cloning site Green=Tags(s)

MEAEFYMVILTCLIFRNSEGFQIVHVQKQCLFKNEKVVGSCNRTIQNQQWMWTEDEKLLHVKSALCLA
 ISNSSRGPSSAILDRCSQAPRWTCYDQEGFLEVENASLFLQKQGSRVVVKARKYLHSHWMKIDVNKEGK
 LVNESLCLQKAGLGAEVSVRSTRNTAPPQILTTFNAVDPGLVFLIRNTTEAFIRNAAENYSQNSSERQHP
 NLHMTGITDTSWVLSTTQPFSSSTEETGLAEPERCNFTLAESKASSHSVSIQWRILGSPCNFSLIYSSDT
 LGAALCPTFRIDNTTYGCNLQDLQAGTIYNFRIISLDEERTVVLQTDPLPPARFGVSKEKTTSTLSLHWWW
 TPSSGKVTSYEVQLFDENNQKIQGVQIQESTSWNEYTFNLTAGSKYNIATAVSGGKRSFSVYTNGSTV
 PSPVKDIGISTKANSLLISWSHGSGNVERYRLMLMDKGILVHGGVVDKHATSAYAFHGLTPGYLYNLVMT
 EAAGLQNYRWKLVRTAPMEVSNLKVTDNGSLTSLKVKWQRPPGNVDSYNITLSHGKTIKESRVLAPWITE
 THFKELVPGRLYQVTVSCVSGELSAQKMAVGRTFPDKVANLEANNGRMRSLLVSWSPAGDWEQYRILL
 FNDVWLLNITVGEETQYVMDDTGLVPGRQYEVEVIVESGNLKNSERCQGRVPLAVLQLRVKHANETS
 LSIMWQTPVAEWEKYIISLADRDLIIHKSLSKDAKEFTFDLVPGRKYMATVTSISGDLKNSSSVKGR
 VPAQVTDLHVANQGMTSSLFTNWTQAQGDVEFYQVLLIHENVIKNEISSSETSRYSFHSLKSGSLYSV
 VTTVSGGISSRQVWVEGRTVPSSVSGVTNNSGRNDYLSVSWLLAPGDVDNYEVTLSHDGKVVQSLVIK
 SVRECSFSSLTPGRLYTVTITTRSGKYENHSFSQERTVPDKVQGVSVNSARSYDLRVSWWHATGDFDHY
 EVTIKNKNFIQTKSIPKSENECVFVQLVPGRLYSVTVTTKSGQYEANEQNGRTIPEPVKDLTLRNRST
 EDLHVTWSGANGDVDQYEIQLLFNDMKVFPFHLVNTATEYRFTSLTPGRQYKILVLTISGDVQQSAFIE
 GFTVPSAVKNIHISPNGATDSLTVNWTGGGDVDSYTVSAFRHSQKVDSTQIPKHVFEHTFHRLEAGEQY
 QIMIASVSGSLKNQINVVGRTPASVQGVADNAYSSYSLIVSWQKAAGVAERYDILLTENGILLRNTS
 EPATTKQHKFEDLTPGKKYKIQLTVSGGLFSKEAQTEGRTVPAAVTDLRITENSTRHLSFRWTASEGEL
 SWYNIFLYNPDGNLQERAQVDPLVQSFSFQNLQGRMYKMVIVTHSGELSNESFIFGRTPASVSHLRGS
 NRNTDSLWFNWPASGDFDFYELILYNPNGTCKENWKDKDLTEWRFQGLVPGRKYVLWVTHSGDLSNK
 VTAESRTAPSPSLMSFADIANTSLAITWKGPPDWDYNDYFELQWLPRDALTVFNPNRNRKSEGRIVYGL
 RPGRSYQFNVKTVSGDSWKTYSKPIFGSVRTPDKIQNLHCRPQNSTAIACSWIPPDSDFDGYISIECRKM
 DTQEVFEFSRLEKEKSLNIMMLVPHKRYLVSIVQSGAMTSEVVEDSTITMIDRPPPPPHIRVNEKDV
 LISKSSINFTVNCWFSDTNGAVKYFTVVVREADGSDDELKPEQQHPLPSYLEYRHNASIRVYQTNFYASK
 CAENPNSNSKSFNIKGAEMESLGGKCDPTQQKFCDGPLKPHYTAYRISIRAFQTQFDEDLKEFTKPLYS
 TFFSLPITTESEPLFGAIEGVSAGLFLIGMLVAVVALLICRQKVSHGRERPSARLSIRDRPLSVHLNLG
 QKGNRKTSCPIKINQFEGHFMLQADSNYLLSKEYEELKDVGRNQSCDIALPENRGKNRYNNILPYDAT
 RVKLSNVDDDPCSDYINASYIPGNFRREYIVTQGPLPGTKDDFWKMMWEQNVHNIVMVTQCVEKGRVKC
 DHYWPADQDSLYYGDILQLMLSESVLPEWTIREFKICGEEQLDAHRLIRHFHYTVWPDHGVPETTQSLIQ
 FVRTVRDYINRSPGAGPTVHCSAGVGRTGTFIALDRILQQLDSKDSVDIYGAVHDLRLHRVHMVQTECQ
 YVYLHQCVRDVLRARKLRSEQENPLFPIYENVNPEYHRDPVYSRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 249 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001103224
Locus ID:	5787
UniProt ID:	P23467 , Q86VA4
Cytogenetics:	12q15
RefSeq ORF:	6645
Synonyms:	HPTP-BETA; HPTPB; PTPB; R-PTP-BETA; VEPTP
Summary:	<p>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]</p>
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Adherens junction

Product images:

Coomassie blue staining of purified PTPRB protein (Cat# [TP326479]). The protein was produced from HEK293T cells transfected with PTPRB cDNA clone (Cat# [RC226479]) using MegaTran 2.0 (Cat# [TT210002]).