

## Product datasheet for **TP326479**

### **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, 20 µg
Species:	Human
Expression Host:	HEK293T



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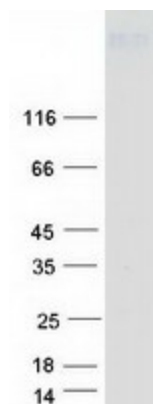
Expression cDNA Clone >RC226479 representing NM\_001109754  
 or AA Sequence: Red=Cloning site Green=Tags(s)

MEAEFYMVILTCLIFRNSEGFQIVHVQKQCLFKNEKVVGSCNRTIQNQQWMWTEDEKLLHVKSALCLA  
 ISNSSRGPSSAILDRCSQAPRWTCYDQEGFLEVENASLFLQKQGSRVVKKARKYLHWSMKIDVNKEGK  
 LVNESLCLQKAGLGAEVSVRSTRNTAPPQILTTFNAVDPGLVFLIRNTTEAFIRNAAENYSQNSSERQHP  
 NLHMTGITDTSWVLSTTQPFSSSTEETGLAEPERCNFTLAESKASSHSVSIQWRILGSPCNFSLIYSSDT  
 LGAALCPTFRIDNTTYGCNLQDLQAGTIYNFRIISLDEERTVVLQTDPLPPARFGVSKEKTTSTLSLHWWW  
 TPSSGKVTSYEVQLFDENNQKIQGVQIQESTSWNEYTFFNLTAGSKYNIAITAVSGGKRSFSVYTNGSTV  
 PSPVKDIGISTKANSLLISWSHGSGNVERYRLMLMDKGILVHGGVVDKHATSYAFHGLTPGYLYNLVTMT  
 EAAGLQNYRWKLVRTAPMEVSNLKVTDNGSLTSLKVKWQRPPGNVDSYNITLSHGKTIKESRVLAPWITE  
 THFKELVPGRLYQVTVSCVSGELSAQKMAVGRTPDKVANLEANNGRMRSLLVSWSPAGDWEQYRILL  
 FNDVWLLNITVGEETQYVMDDTGLVPGRQYEVEVIVESGNLKNSERCQGRVPLAVLQLRVKHANETS  
 LSIMWQTPVAEWEKYIISLADRDLIIHKSLSKDAKEFTFDLVPGRKYMATVTSISGDLKNSSSVKGR  
 VPAQVTDLHVANQGMTSSLFTNWTQAQGDVEFYQVLLIHENVIKNESSSETSRYSFHSLKSGSLYSVV  
 VTTVSGGISSRQVWVEGRTVPSSVSGVTNNSGRNDYLSVSWLLAPGDVDNYEVTLSHDGKVVQSLVIK  
 SVRECSFSSLTPGRLYTVTITTRSGKYENHSFSQERTVPDKVQGVSVNSARSYDLRVSWWHATGDFDHY  
 EVTIKNKNFIQTKSIPKSENECFVQLVPGRLYSVTVTTKSGQYEANEQNGRTIPEPVKDLTLRNRST  
 EDLHVTWSGANGDVDQYEIQLLFNDMKVFPFHLVNTATEYRFTSLTPGRQYKILVLTISGDVQQSAFIE  
 GFTVPSAVKNIHISPNGATDSLTVNWTGGGDVDSYTVSAFRHSQKVDSTQIPKHVFEHTFHRLEAGEQY  
 QIMIASVSGSLKNQINVVGRTPASVQGVADNAYSSYSLIVSWQKAAGVAERYDILLTENGILLRNTS  
 EPATTKQHKFEDLTPGKKYKIQLTVSGGLFSKEAQTEGRTVPAAVTDLRITENSTRHLSFRWTASEGEL  
 SWYNIFLYNPDGNLQERAQVDPLVQSFQNLQGRMYKMVIVTHSGELSNESFIFGRTPASVSHLRGS  
 NRNTDSLWFNWPASGDFDFYELILYNPNGTCKENWKDKDLTEWRFQGLVPGRKYVLWVTHSGDLSNK  
 VTAESRTAPSPSLMSFADIANTSLAITWKGPPDWDYNDYFELQWLPRDALTVFNPYNNRKSEGRIVYGL  
 RPGRSYQFNVKTVSGDSWKTYSKPIFGSVRTPDKIQNLHCRPQNSTAIACSWIPPDSDFDGYIECRKM  
 DTQEVFEFSRLEKEKSLNIMMLVPHKRYLVSIVQSGAMTSEVVEDSTITMIDRPPPPPHIRVNEKDV  
 LISKSSINFTVNCWFSWSDTNGAVKYFTVVVREADGSDDELKPEQQHPLPSYLEYRHNASIRVYQTNYFASK  
 CAENPNSNSKSFNIKGAEMESLGGKCDPTQQKFCDGPLKPHYTAYRISIRAFQTQFDEDLKEFTKPLYS  
 TFFSLPITTESEPLFGAIEGVSAGLFLIGMLVAVVALLICRQKVSHGRERPSARLSIRDRPLSVHLNLG  
 QKGNRKTSCPIKINQFEGHFMKLQADSNYLLSKEYEELKDVGRNQSCDIALPENRGKNRYNNILPYDAT  
 RVKLSNVDDDPCSDYINASYIPGNFRREYIVTQGPLPGTKDDFWKMMWEQNVHNIVMVTQCVEKGRVKC  
 DHYWPADQDSLYYGDILQMLSESVLPEWTIREFKICGEEQLDAHRLIRHFHYTVWPDHGVPETTQSLIQ  
 FVRTVRDYINRSPGAGPTVHCSAGVGRGTGFIALDRILQQLDSKDSVDIYGAVHDLRLHRVHMVQTECQ  
 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

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