

Recombinant Full Length Human PTPRD Protein, Untagged

Cat. No. PTPRD-807H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRD protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-1912 a.a.
Description	<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 region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of three Ig-like and eight fibronectin type III-like domains. Studies of the similar genes in chicken and fly suggest the role of this PTP is in promoting neurite growth, and regulating neurons axon guidance. Multiple alternatively spliced transcript variants of this gene have been reported. A related pseudogene has been identified on chromosome 5.</p>
Form	Lyophilized
Molecular Mass	140 kDa
AA Sequence	MVHVARLLLLLLTFFLRTDAETPPRFTRTPVDQTGVSGGVASFICQATGDPRPKIWW NKKGKKVSNQRFEVIEFDDGSGSVLRIQPLRTPRDEAIYECVASNNVGEISVSTRLTV

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LREDQIPRGFPTIDMGPQLKVVERTRTATMLCAASGNPDPEITWFKDFLPVDTSNNN
GRIKQLRSESIGGTPIRGALQIEQSEESDQGGKYECVATNSAGTRYSAPANLYVREL
EVRRVPPRFSIPPTNHEIMPGGSVNITCVAVGSPMPYVKWMLGAEDLTPEDDMP
RNVLELNDVRQSANYTCVAMSTLGVIEAIAQITVKALPKPPGTPVTESTATSITLW
DSGNPEPVSYYIIQHKKPKNSEELYKEIDGVATTRYSVAGLSPYSYDFRVVAVNNIGR
GPPSEPVLTQTSEQAPSSAPRDVQARMLSSTTILVQWKEPEEPNGQIQGYRVYYTM
DPTQHVNNWMKHNVADSQITTIGNLVQKTYSVKVLAFSTIGDGPLSSDIQVITQTGV
PGQPLNFKAPESESETSILLSWTPPRSDTIANVELVYKDGEHGEEQRITIEPGTSYRLQ
GLKPNSLYYFRLAARSPQGLGASTAEISARTMQSKPSAPPQDISCTSPSSTSILVSW
QPPPVEKQNGIITEYSIKYTAVDGEDDKPHEILGIPSDTTKYLLEQLEKWTEYRITVTA
HTDVGPGPESLSVLIRTNEDVPSGPPRKVEVEAVNSTSVKVSWRSPVFNKQHGQIR
GYQVHYVRMENGEPKGPMLKDVMLADAQWFEFDDTTEHDMIISGLQPETSYSLTV
TAYTTKGDGARSKPKLVSTTGAVPGKPRLVINHTQMNTALIQWHPPVDTFGPLQGY
RLKFGRKDMEPLTTLEFSEKEDHFTATDIHKGASYVFRLSARNKVGFGGEMVKEISIP
EEVPTGFPQNLHSEGTTSTSVQLSWQPPVLAERNGIITKYTLRYDINIPLLPMEQLIV
PADTTMTLTGLKPDTTYDVKVRHAHTSKGPGPYSPSVQFRTLVPDQVFAKNFHVKAV
MKTSVLLSWEIPENYNSAMPFKILYDDGKMVEEVDGRATQKLIVNLKPEKSYSFVLT
NRGNSAGGLQHRVTAKTAPDVLRTKPAFIGKTNLDGMITVQLPEVPANENIKGYIIIV
PLKKSARGKFIKPWESPDEMEDELLEKISRKRRSIRYGREVELKPYIAAHFDVLPTEF
TLGDDKHYYGGFTNKQLQSGQEYVFFVLAVMEHAESKMYATSPYSDPVVSMDLDPQ
PITDEEEGLIWWWGPVLAVVFIICIVIAILLYKRKRAESDSRKSSIPNNKEIPSHHPTDPV
ELRRLNFQTPGMASHPPPILELADHIERLKANDNLKFSQEYESIDPGQQTWEHSNL
EVNKPKNRYANVIAYDHSRVLLSAIEGIPGSDYVNANYIDGYRKQNAIATQGSLPET
FGDFWRMIWEQRSATVMMTKLEERSRVKCDQYWPSRGTEHGLVQVTLTLDVTEL
ATYCVRTFALYKNGSSEKREVRQFQFTAWPDHGVPEHPTPFLAFLRRVKTCPNPPDA
GPMVVHCSAGVGRGTGCFIVIDAMLERIKHEKTVDIYGHVTLMRAQRNYMVQTEDQYI
FIHDALLEAVTCGNTEVPARNLYAYIQKLTQIETGENVTGMELEFKRLASSKAHTSRFI
SANLPCNKFKNRLVNIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGP
LAETTEDFWRMLWEHNSTIVMLTKLREMGREKCHQYWPAERSARYQYFVVDPMA
EYNMPQYILREFKVTDARDGQSRTVRQFQFTDWPEQGVPKSGEGFIDFIGQVHKT

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	EQFGQDGPISVHCSAGVGRGTGVFITLSIVLERMRYEGVVDIFQTVKMLRTQRPAMVQ TEDQYQFSYRAALEYLGSEFDHYAT
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.
GENE INFORMATION	
Gene Name	PTPRD protein tyrosine phosphatase, receptor type, D [Homo sapiens (human)]
Official Symbol	PTPRD
Synonyms	PTPRD; protein tyrosine phosphatase, receptor type, D; receptor-type tyrosine-protein phosphatase delta; HPTP; PTPD; R-PTP-delta; protein-tyrosine phosphatase delta; protein tyrosine phosphatase, receptor type, delta polypeptide; HPTPD;

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HPTPDELTA; RPTPDELTA; MGC119750; MGC119751; MGC119752; MGC119753;

Gene ID [5789](#)

mRNA Refseq [NM_001040712](#)

Protein Refseq [NP_001035802](#)

MIM [601598](#)

UniProt ID [P23468](#)

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