

# Recombinant Full Length Human PTPRD Protein, Untagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human PTPRD protein without tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 1-1912 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</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 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> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 140 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MVHVARLLLLLLTFFLRDAETPPRFTRTPVDQTGVSGGVASFICQATGDPRPKIWW<br>NKKGKKVSNQRFEVIEFDDGSGSVLRIQPLRTPRDEAIYECVASNNVGEISVSTRLLTV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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LREDQIPRGFPTIDMGPQLKVVERTRTATMLCAASGNPDPEITWFKDFLPVDTSNNN  
GRIKQLRSESIGGTPIRGALQIEQSEESDQGYECVATNSAGTRYSAPANLYVREL  
EVRRVPPRFSIPPTNHEIMPGGSVNITCVAVGSPMPYVKWMLGAEDLTPEDDMPIG  
RNVLELNDVRQSANYTCVAMSTLGVIEAIAQITVKALPKPPGTPVTESTATSITLTW  
DSGNPEPVSYIIQHKPKNSEELYKEIDGVATTRYSVAGLSPYSDYEFVAVNNIGR  
GPPSEPVLTQTSEQAPSSAPRDVQARMLSSTTILVQWKEPEEPNGQIQGYRVYYTM  
DPTQHVNNWMKHNVADSQITTIGNLVPQKTVSVKVLAFSTIGDGPLSSDIQVITQTGV  
PGQPLNFKAEPESETSILLSWTPPRSDTIANVELVYKDGEHGEEQRITIEPGTSYRLQ  
GLKPNSLYYFRLAARSPQGLGASTAEISARTMQSKPSAPPQDISCTSPSSTSILVSW  
QPPPVEKQNGIITEYSIKYTAVDGEDDKPHEILGIPSDTTKYLLEQLEKWTEYRITVTA  
HTDVGPGPESLSVLRTNEDVPSGPPRKVEVEAVNSTSVKVSWSRSPVPNKQHGQIR  
GYQVHYVRMENGEPKGPMLKDVMLADAQWEFDDTTEHDMIISGLQPETSYSSTV  
TAYTTKGDGARSKPKLVSTTGAVPGKPRLVINHTQMNTALIQWHPPVDTFGPLQGY  
RLKFGRKDMEPLTTLEFSEKEDHFTATDIHKGASYVFRLSARNKVGFGGEEMVKEISIP  
EEVPTGFPQNLHSEGTSTSVQLSWQPPVLAERNGIITKYTLLYRDINIPLLPMEQLIV  
PADTTMTLTGLKPDTTYDVKVRAHTSKGPGPYSPSVQFRTLVPDQVFAKNFHVKA  
MKTSVLLSWEIPENYNSAMPFKILYDDGKMVEEVDGRATQKLIVNLKPEKSYSFVLT  
NRGNSAGGLQHRVTAKTAPDVLRTKPAFIGKTNLDGMITVQLPEVPANENIKGYIIIV  
PLKKSARGKFIKPWESPDEMELDELLKEISRKRRSIRYGREVELKPYIAAHFDVLPTEF  
TLGDDKHYYGGFTNKQLQSGQEYVFFVLAVMEHAESKMYATSPYSDPVVSMDLDPQ  
PITDEEEGLIWWVGPVLAVVFIICIVIAILLYKRKRAESDSRKSSIPNNKEIPSHHPTDPV  
ELRRLNFQTPGMASHPPPILELADHIERLKANDNLKFSQEYESIDPGQQTWEHSNL  
EVNKPKNRYANVIAYDHSRVLLSAIEGIPGSDYVNANYIDGYRKQNAYIATQGSLPET  
FGDFWRMIWEQRSATVMMTKLEERSRVKCDQYWPSRGTEHGLVQVTLTLDTEL  
ATYCVRTFALYKNGSSEKREVRQFQFTAWPDHGVPEHPTPFLAFLRRVKTCNPPDA  
GPMVVHCSAGVGRTGCFIVIDAMLERIKHEKTVDIYGHVTLMRAQRNYMVQTEDQYI  
FIHDALLEAVTCGNTEVPARNLYAYIQKLTQIETGENVTGMELEFKRLASSKAHTSRFI  
SANLPCNKFKNRLVNIMPYESTRVCLQPIRGVEGSDYINASFIDGYRQQKAYIATQGP  
LAETTEDFWRMLWEHNSTIVVMLTKLREMGREKCHQYWPAERSARYQYFVVDPM  
EYNMPQYILREFKVTDARDGQSRTVRQFQFTDWPEQGVPKSGEGFIDFIGQVHKT

|                       |                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | EQFGQDGPISVHCSAGVGRTGVFITLSIVLERMRYEGVVDIFQTVKMLRTQRPAMVQ<br>TEDQYQFSYRAALEYLGSFDHYAT                                                                                                                                                                                       |
| <b>Purity</b>         | > 98%                                                                                                                                                                                                                                                                       |
| <b>Applications</b>   | WB; ELISA; FACS; FC                                                                                                                                                                                                                                                         |
| <b>Stability</b>      | 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.                                                                      |
| <b>Storage</b>        | At -20 centigrade.                                                                                                                                                                                                                                                          |
| <b>Concentration</b>  | 1 mg/mL                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b> | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | 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

|                        |                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTPRD protein tyrosine phosphatase, receptor type, D [ Homo sapiens (human) ]                                                                                                                                                                |
| <b>Official Symbol</b> | PTPRD                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | 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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