

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

Cat. No. PTPRK-1581HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PTPRK 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 possesses an extracellular region, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP was shown to mediate homophilic intercellular interaction, possibly through the interaction with beta- and gamma-catenin at adherens junctions. Expression of this gene was found to be stimulated by TGF-beta 1, which may be important for the inhibition of keratinocyte proliferation.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	160.3 kDa
AA Sequence	MDTTAAAALPAFVALLLLSPWPLLGSAQGQFSAGGCTFDDGPGACDYHQDLYDDF

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EWWHVSAQEPHYLPP EMPQGSYMIVDSSDHPGEKARLQLPTMKENDTHCIDFSY
 LLYSQKGLNPGTLNILVRVNGKPLANPIWN VTGFTGRDWLRAELAVSTFWPNEYQV
 IFEAEVSGGRSGYIAIDDIQVLSYPCDKSPHFLRLGDVEVNAGQ NATFQCIATGRDA
 VHNKLWLQRRNGEDIPVAQTKNINHRRFAASFRLQEVTKTDQDLYRCVTQSERGSG
 V SNFAQLIVREPPRPIAPPQLLGVGPTYLLIQLNANSIIGDGPILKEVEYRMTSGSWT
 ETHAVNAPTYKL WHLDPDTEYEIRVLLTRPGEGGTGLPGPPLITRTKCAEPMRTPKT
 LKIAEIQARRIAVDWESLGYNITRC HTFNVTICYHYFRGHNESKADCLDMDPKAPQH
 VVNHLPPYTNVSLKMILTNPGRKESEETIIQTDEDVP GPVPVKSQGTSTFENKIFLN
 WKEPLDPNGIITQYEISYSSIRSFDPAVPVAGPPQTVSNLWNSTHHVFMH LHPGTTY
 QFFIRASTVKGFGPATAINVTTNISAPTLPDYEGVDASLNETATTITVLLRPAQAKGAPI
 SAY QIVVEELHPHRTKREAGAMECYQVPVITYQNAMSSGGAPYYFAAELPPGNLPEP
 APFTVGDNRITYQGFWNPP LAPRKGYNIFYQAMSSVEKETKTQCVRIATKAAATEEP
 EVIPDPAKQTDREVVKIAGISAGILVFILLLLV VILIVKSKSLAKKRKDAMGNTRQEMTH
 MVNAMDRSYADQSTLHAEDPLSITFMDQHNFSPRYENHSATAE SSRLLDVPRYLCE
 GTESPYQTGQLHPAIRVADLLQHINLMKTSDSYGFKEEYESFFEGQSASWDVAKKD
 Q NRAKNRYGNIIAYDHSRVILQPVEDDPSSDYINANYIDIWLYRDGYQRPSHYIATQG
 PVHETVYDFWRMI WQEQSACIVMVTNLVEVGRVKCYKYWPDDTEVYGDFKVTCTVE
 MEPLAEYVVRTFTLERRGYNEIREVKQF HFTGWPDHGVPHYHATGLLSFIRRVKLSN
 PPSAGPIVVHCSAGAGRTGCYIVIDIMLDMAEREGVVDIYNC VKALRSRRINMVQTE
 EQYIFIHDAILEACLCGETAIPVCEFKAAAYFDMIRIDSQTNSSHLKDEFQTLNSV TPRL
 QAEDCSIACLPRNHDKNRFMDMLPPDRCLPFLITIDGESSNYINAALMDSYRQPAAFI
 VTQYPLPN TVKDFWRLVYDYGCTSIIVMLNEVDLSQGCPQYWPEEGMLRYGPIQVE
 CMSCSMDCDVINRIFRICNLTRP QEGYLMVQQFQYLGWASHREVPGSKRSFLKLIL
 QVEKWQEECEEGERTHHCLNGGGRSGMFCAIGIVV
 EMVKRQNVVDVFHAVKTLRNSKPNMVEAPEQYRFCYDVALEYLESSSGPTRTRRLE
 QKLISEEDLAANDILDYKDDDDKV

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, Transmembrane
Full Length	Full L.

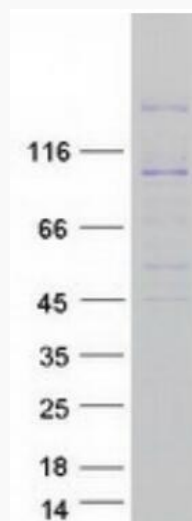
GENE INFORMATION

Gene Name	PTPRK protein tyrosine phosphatase receptor type K [Homo sapiens (human)]
Official Symbol	PTPRK
Synonyms	R-PTP-kappa
Gene ID	5796
mRNA Refseq	NM_001135648.3
Protein Refseq	NP_001129120.1
MIM	602545
UniProt ID	Q15262

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Coomassie blue staining of purified PTPRK protein.

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