

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	<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 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.</p>
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
 LLYSQKGLNPGTLNILVRVNKGPLANPIWN VTGFTGRDWLRAELAVSTFWPNEYQV
 IFEAEVSGGRSGYIAIDDIQVLSYPCDKSPHFLRLGDVEVNAGQ NATFQCIATGRDA
 VHNKLWLQRRNGEDIPVAQTKNINHRRFAASFRLQEVTKTDQDLYRCVTQSERGSG
 V SNFAQLIVREPPRPIAPPQLLGVGPTYLLIQLNANSIIGDGPILKEVEYRMTSGSWT
 ETHAVNAPTYKL WHLDPDTEYEIRVLLTRPGEGGTGLPGPPLITRTKCAEPMRTPKT
 LKIAEIQARRIAVDWESLGYNITRC HTFNVTICYHYFRGHNESKADCLDMDPKAPQH
 VVNHLPPYTNVSLKMILTNPGRKESEETIIQTDEDVP GPVPVKSQGTSTFENKIFLN
 WKEPLDPNGIITQYEISYSSIRSFDPVAVPVAGPPQTVSNLWNSTHHVFMH LHPGTTY
 QFFIRASTVKGFGPATAINVTTNISAPTLDPYEGVDASLNETATTITVLLRPAQAKGAPI
 SAY QIVVEELHPHRTKREAGAMECYQVPVTYQNAMSSGAPYYFAAELPPGNLPEP
 APFTVGDNRTYQGFWNPP LAPRKGYNIFYQAMSSVEKETKTQCVRATKAAATEEP
 EVIPDPAKQTDREVVKIAGISAGILVFILLLLV VILIVKSKLAKKRKDAMGNTRQEMTH
 MVNAMDRSYADQSTLHAEDPLSITFMDQHNFSRYENHSATAE SSRLLDVPRYLCE
 GTESPYQTGQLHPAIRVADLLQHINLMKTSDSYGFKEEYESFFEGQSASWDVAKKD
 Q NRAKNRYGNIIAYDHSRVLQPVEDDPSSDYINANYIDIWLYRDGYQRPSHYIATQG
 PVHETVYDFWRMI WQEQSACIVMVTNLVEVGRVKCYKYWPDDTEVYGDVFKVTCVE
 MEPLAEYVVRTFTLERRRGYNEIREVKQF HFTGWPDHGVPYHATGLLSFIRRVKLSN
 PPSAGPIVVHCSAGAGRTGCYIVIDIMLDMAEREGVVDIYNC VKALRSRRINMVQTE
 EQYIFIHDAILEACLCGETAIPVCEFKAAAYFDMIRIDSQTNSSHLKDEFQTLNSV TPRL
 QAEDCSIACLPRNHDKNRFMDMLPPDRCLPFLITIDGESSNYINAALMDSYRQPAAFI
 VTQYPLPN TVKDFWRLVYDYGCTSIVMLNEVDLSQGCPQYWPEEGMLRYGPIQVE
 CMSCSMDCDVINRIFRICNLTRP QEGYLMVQQFQYLGWASHREVPGSKRSFLKLIL
 QVEKWQEECEEGEGRTIIHCLNGGGRSGMFCAIGIVV
 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

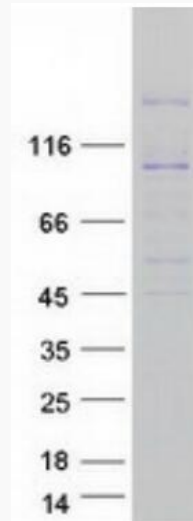
UniProt ID

Q15262

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Coomassie blue staining of purified PTPRK protein.

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