

Recombinant Human PTPRK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPRK-5497H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPRK MS Standard C13 and N15-labeled recombinant protein (NP_001129120) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	163.02 kDa
AA Sequence	MDTTAAALPAFVALLLLSPWPLLGSAQGQFSAGGCTFDDGPGACDYHQDLYDDF EWHVSAQEPHYLPPEMPQGSYMIVDSSDHDPGEKARLQLPTMKENDTHCIDFSYL

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LYSQKGLNPGTLNILVRVNGPLANPIWNVGTGFTGRDWLRAELAVSTFWPNEYQVIF
 EAEVSGGRSGYIAIDDIQVLSYPCDKSPHFLRLGDVEVNAGQNATFQCIATGRDAVH
 NKLWLQRRNGEDIPVAQTKNINHRRFAASFRLQEVTKTDQDLYRCVTQSERGSGVS
 NFAQLIVREPPRIAPPQLLGVGPTYLLIQLNANSIIGDGPILKEVEYRMTSGSWTETH
 AVNAPTYKLWHLDPDTEYEIRVLLTRPGEGGTGLPGPPLITRTKCAEPMRTPKTLKIA
 EIQARRIAVDWESLGYNITRCHTFNVTICYHYFRGHNESKADCLDMDPKAPQHVVNH
 LPPYTNVSLKMILTNPGRKESEETIIQTDEDVPGVPVVKSLQGTSFENKIFLNWKEP
 LDPNGIITQYEISYSSIRSFDPAVPVAGPPQTVSNLWNSTHHVFMHLHPGTTYQFFIR
 ASTVKGFGPATAINVTTNISAPTLPDYEGVDASLNETATTITVLLRPAQAKGAPISAYQ
 IVVEELHPHRTKREAGAMECYQVPVITYQNAMSGGAPYYFAAELPPGNLPEPAPFTV
 GDNRTYQGFWNPPAPRKGYNIFYQAMSSVEKETKTQCVRIATKAAATEEPEVIPDP
 AKQTDREVVKIAGISAGILVFILLLVILIVKKSCLKAKKRKDAMGNTRQEMTHMVNAMD
 RSYADQSTLHAEDPLSITFMDQHNFSPRYENHSATAESSRLLDVPRYLCEGTESPY
 QTGQLHPAIRVADLLQHINLMKTSDSYGFKEEYESFFEGQSASWDVAKKDQNRANK
 RYGNIIAYDHSRVILQPVEDDPSSDYINANYIDIWLYRDGYQRPSHYIATQGPVHETV
 YDFWRMIWQEQSACIVMTNLVEVGRVKCYKYWPDDTEVYGDFKVTCEMEPLAE
 YVVRTFTLERRGYNEIREVKQFHFTGWPDHGVPYHATGLLSFIRRVKLSNPPSAGPI
 VVHCSAGAGRTGCIYIDIMLDMAEREGVVDIYNCVKALRSRRINMVQTEEQYIFIHD
 AILEACLCGETAIPVCEFKAAAYFDMIRIDSQTNSSHLKDEFQTLNSVTPRLQAEDCSIA
 CLPRNHDKNRFMDMLPPDRCLPFLITIDGESSNYINAALMDSYRQPAAFIQTQYPLPN
 TVKDFWRLVYDYGCTSIIVMLNEVDLSQGCPQYWPEEGMLRYGPIQVECMSCSMDC
 DVINRIFRICNLTRPQEGYLMVQQFQYLGWASHREVPVGSKRSLKLILQVEKWQEEC
 EEGEGRTIIHCLNGGGRSGMFCAIGIVVEMVKRQNVVDVFHAVKTLRNSKPNMVEA
 PEQYRFCYDVALEYLESSSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

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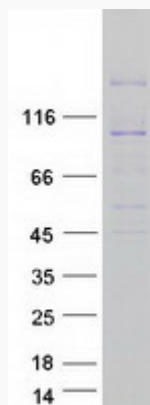
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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	PTPRK protein tyrosine phosphatase receptor type K [Homo sapiens (human)]
Official Symbol	PTPRK
Synonyms	PTPRK; protein tyrosine phosphatase, receptor type, K; receptor-type tyrosine-protein phosphatase kappa; R PTP kappa; protein-tyrosine phosphatase kappa; protein-tyrosine phosphatase, receptor type, kappa; dJ480J14.2.1 (protein tyrosine phosphatase, receptor type, K (R-PTP-KAPPA, protein tyrosine phosphatase kappa, protein tyrosine phosphatase kappa; R-PTP-kappa; DKFZp686C2268; DKFZp779N1045;
Gene ID	5796
mRNA Refseq	NM_001135648
Protein Refseq	NP_001129120
MIM	602545
UniProt ID	Q15262

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SDS-PAGE

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