

Product Information

MemDX™ Membrane Protein Human PTPRK (Protein tyrosine phosphatase receptor type K)

Full Length

Cat. No.: **MPC2492K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human PTPRK membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

PTPRK

Protein Length

Full length

Protein Class

Protein phosphatase

TMD

1

Sequence

MDTTAAALPAFVALLLLSPWPLLGSAQQQFSAGGCTFDDGPGACDYHQD
LYDDFEWVHVSAQEPHYLPPEMPQGSYMIVDSSDHPGEKARLQLPTMKE
NDTHCIDFSYLLYSQKGLNPGTLNILVRVNBKGPLANPIWNVGTGTRDWL
RAELAVSTFWPNEYQVIFAEVSGGRSGYIAIDDIQVLSYPCDKSPHFLR
LGDVEVNAGQNATFQCIATGRDAVHNKLWLQRRNGEDIPVAQTKNINHRR
FAASFRLQEVTKTDQDLYRCVTQSERGSGVSNFAQLIVREPPRIAPPQL
LGVGPTYLLIQLNANSIIGDGPILKEVEYRMTSGSWTETHAVNAPTYKL
WHLDPDTEYEIRVLLTRPGEGGTGLPGPPLITRTKCAEPMRTPKTLKIAE
IQARRIAVDWESLGYNITRCHTFNVTICYHYFRGHNESKADCLDMDPKAP
QHVVNHLPPYTNVSLKMILTNPGRKESEETIIQTDEDVPGVPVKSLQG
TSFENKIFLNWKEPLDPNGIITQYEISYSSIRSFDPAVPVAGPPQTVSNL
WNSTHHVFMHLHPGTTYQFFIRASTVKGFGPATAINVTTNISAPTLPDYE
GVDASLNETATTITVLLRPAQAKGAPISAYQIVVEELHPHRTKREAGAME
CYQVPVTYQNAMSGGAPYYFAAELPPGNLPEPAPFTVGDNRITYQGFWNPP
LAPRKGYNIFYQAMSSVEKETKTQCVRIATKAATEEPEVIPDPAKQTDREV
VKIAGISAGILVFILLVILVKKSLAKKRKRDAMGNTRQEMTHMVNA
MDRSYADQSTLHAEDPLSITFMDQHNFSPRYENHSATAESSRLLDVPRYL
CEGTESPYQTGQLHPAIRVADLLQHINLMKTSDSYGFKEEYESFFEGQSA
SWDVAKKDQNRANKRYGNIIAYDHSRVILQPVEDDPSSDYINANYIDGYQ
RPSHYIATQGPVHETVYDFWRMIWQEQSACIVMTNLVEVGRVKCYKYWP
DDTEVYGDVKVTCVEMEPLAEYVVRTFTLERRGYNEIREVKQFHFTGWPD
HGVPYHATGLLSFIRRVKLSNPPSAGPIVVHCSAGAGRTGCIYIDIMLD

MAEREGVVDIYNCVKALRSRRINMVQTEEQYIFIHDAILEACLCGETAIP
VCEFKAAYFDMIRIDSQTNSSHLKDEFQTLNSVTPRLQAEDCSIACLPRN
HDKNRFMDMLPPDRCLPFLITIDGESSNYINAALMDSYRQPAAFIVTQYP
LPNTVKDFWRLVYDYGCTSIIVMLNEVDLSQGCPCQYWPEEGMLRYGPIQVE
CMSCSMDCDVINRIFRICNLTRPQEGYLMVQQFQYLGWASHREVPGSKRS
FLKLILQVEKWQEECEEEGEGRTIIHCLNGGGRSGMFCAIGIVVEMVKRQN
VVDVFHAVKTLRNSKPNMVEAPEQYRFCYDVALEYLESS

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

PTPRK

Full Name

Protein tyrosine phosphatase receptor type K

Introduction

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.

Alternative Names

PTPRK; R-PTP-kappa; receptor-type tyrosine-protein phosphatase kappa; dJ480J14.2.1 (protein tyrosine phosphatase, receptor type, K (R-PTP-KAPPA, protein tyrosine phosphatase kappa, protein tyrosine phosphatase kappa; protein-tyrosine phosphatase kappa; protein-tyrosine phosphatase, receptor type, kappa; Protein tyrosine phosphatase receptor type K

Gene ID

[5796](#)

UniProt ID

[Q15262](#)