

Product Information

MemDX™ Membrane Protein Human PTPRJ (Protein tyrosine phosphatase receptor type J)

Full Length

Cat. No.: **MPC2440K**

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

This product is a made-to-order Human PTPRJ 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

PTPRJ

Protein Length

Full length

Protein Class

Protein phosphatase

TMD

1

Sequence

MKPAAREARLPPRSPGLRWALPLLLLLRLGQILCAGGTPSPIPDPSVAT
VATGENGITQISSTAESFHKQNGTGTPQVETNTSEDESSGANDSLRTP
QGSNGTDGASQKTPSSSTGSPVFDIKAVSISPTNVILTWKSNDTAASEYK
YVVKHKMENEXTITVVHQPCWNTGLRPATSYVFSITPGIGNETWGDPRV
IKVITEPIPVSDLRVALTGVRKAALSWSNNGTASCRVLLESIGSHEELT
QDSRLQVNIISGLKPGVQYNINPYLLQSNKTKGDPLGTEGGLDASNTSR
AGSPTAPVHDESLVGPVDPSSGQQSRDTEVLLVGLPGTRYNATVYSQAA
NGTEGQPQAIIEFRNAIQVFDVTAVNISATSLTLIWKVSDNESSSNTYK
IHVAGETDSSNLNVSEPRVPIGLRSSTFYNTVCPVLGDIEGTPGFLQV
HTPPVPVSDFRVTVVSTTEIGLAWSSHDAESFQMHITQEGAGNSRVEITT
NQSIIGGLFPGTKYCFEIVPKGPNGTEGASRTVCNRTVPSAVFDIHVVY
VTTTEMWLDWKSPDGASEYVYHLVIESKHGSNHTSTYDKAITLQGLIPGT
LYNITISPEVDHVGDPNSTAQYTRPSNVSNIDVSTNTTAATLSWQNFDD
ASPTYSYCLLIEKAGNSSNATQVVTDIGITDATVTELIPGSSYTVEIFAQ
VGDGKISLEPGRKSFCTDPASMASFDCEVVPKEPALVLKWTCPPGANAGF
ELEVSSGAWNNATHLESCSSENGTEYRTEVTYLNFTSYNISITTVSCGK
MAAPTRNTCTTGITDPPPPDGSPNITSVSHNSVKVKFSGFEASHGPIKAY
AVILTTGEAGHPSADVLKYTYEDFKKGASDYYTYLIRTEEKGRSQSLSE
VLKYEIDVGNESSTLGGYNGKLEPLGSYRACVAGFTNITFHPQNKGLIDG
AESYVSFSRYSDAVSLPQDPGVICGAVFGCIFGALVIVTVGGFIFWRKKR
KDAKNNEVSFSQIKPKKSKLIRVENFEAYFKKQQADSNCGFEEYEDLKL
VGISQPKYAAELAENRGKNRYNNVLPYDISRVKLSVQTHSTDDYINANYM

PGYHSSKKDFIATQGGLPNTLKDFWRMVWEKNVYAIIMLTKEVEQGRKCE
EYWPSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESHPLRQFHF
TSWPDHGVDPDTDLLINFRYLVRDYMKQSPPEPILVHCSAGVGRTGTFI
AIDRLIYQIENENTVDVYGIVYDLRMHRPLMVQTEDQYVFLNQCVLDIVR
SQKDSKVDLIYQNTTAMTIYENLAPVTTFGKTNGYIA

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

PTPRJ

Full Name

Protein tyrosine phosphatase receptor type J

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 containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. This protein is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 and Linker for Activation of T Cells. This protein can also dephosphorylate the PDGF beta receptor, and may be involved in UV-induced signal transduction. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

PTPRJ; DEP1; SCC1; CD148; HPTPe_{ta}; R-PTP-ETA; receptor-type tyrosine-protein phosphatase eta; CD148 antigen; DEP-1; HPTP eta; R-PTP-J; density-enhanced phosphatase 1; human density enhanced phosphatase-1; protein tyrosine phosphatase, receptor type, J polypeptide; protein-tyrosine phosphatase eta; susceptibility to colon cancer 1, mouse, homolog of; Protein tyrosine phosphatase receptor type J

Gene ID

[5795](#)

UniProt ID

[Q12913](#)