

Product Information

MemDX™ Membrane Protein Human PTPRU (Protein tyrosine phosphatase receptor type U)

Full Length

Cat. No.: **MPC1895K**

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

This product is a 162.4 kDa Human PTPRU 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

PTPRU

Protein Length

Full length

Protein Class

Cell adhesion

Molecular Weight

162.4 kDa

TMD

1

Sequence

MARAQALVLALTFQLCAPETETPAAGCTFEEASDPAVPCEYSQAQYDDFQ
WEQVRIHPGTRAPADLPHGSYLMVNTSQHAPGQRAHVIFQSLSENDTHCV
QFSYFLYSRDGHSPTGLGVYVRVNGGPLGSAVWNMTGSHGRQWHQAELAV
STFWPNEYQVLFEALISPDRRGYMGLDDILLLSYPCAKAPHFSRLGDVEV
NAGQNASFQCMAGRAAEAEERFLLQRQSGALVPAAGVRHISHRRFLATFP
LAAVSRAEQDLYRCVSQAPRGAGVSNFAELIVKEPPTPIAPPQLLRAGPT
YLIQLNTNSIIGDGPIVRKEIEYRMARGPWAEVHAVSLQTYKLWHLDPD
TEYEISVLLTRPGDGGTGRPGPPLISRTKCAEPMRAPKGLAFAEIARQL
TLQWEPLGYNVTRCHTYTVSLCYHYTLGSSHNQTIRECVKTEQGVSRyti
KNLLPYRNVHVRVLVTNPEGRKEGKEVTFQTDDEVPSGIAAESLTFTPLE
DMIFLKWEEPQEPNGLITQYEISYQSISSDPAVNVPGPRTISKLRNET
YHVFSLNHPGTTYLFSVRARTGKGFGQAALTEITNISAPSFYADMPSP
LGESENTITVLLRPAQGRGAPISVYQVIVEEERARRLRREPGGQDCFPVP
LTFEAALARGLVHYFGAELAASSLPEAMPFTVGDNQTYRGFWNPPLPRK
AYLIYFQAASHLKGETRLNCIRIARKAACKESKRPLEVSQRSEEMGLILG
ICAGGLAVLILLGAIIVIRKGRDHYAYSYPKPVNMTKATVNYRQEK
HMMSAVDRSFTDQSTLQEDERLGLSFMMDTHGYSTRGDQRSGGVTEASSLL
GGSPRRPCGRKGSPIHTGQLHPAVRVADLLQHINQMKTAEYGFKQEYES
FFEGWDATKKDKVKGSRQEPMPAYDRHRVKLHPMLGDPNADYINANYID

GYHRSNHFIATQGPKPEMVYDFWRMVWQEHCSSIVMITKLVEVGRVKCSR
YWPEDSDTYGDIKIMLVKTETLAEYVVRTFALERRGYSARHEVRQFHFTA
WPEHGVVPYHATGLLAFIRRVKASTPPDAGPIVIHCSAGTGRTGCYIVLDV
MLDMAECEGVVDIYNCKVTLCSRRVNMIQTEEQYIFIHDAILEACLCGET
TIPVSEFKATYKEMIRIDPQSNSSQLREEFQTLNSVTPPLDVEECISALL
PRNRDKNRSMVDLPPDRCLPFLISTDGDSDNNYINAALDSYTRSAFIVT
LHPLQSTTPDFWRLVYDYGCTSIIVMLNQLNQSNQSAWPCLQYWPEPGRQQY
GLMEVEFMSTADEDLVARVFRVQNISRLQEGHLLVRHFQFLRWSAYRDT
PDSKKAFLHLLAEVDKWQAESGDGRTIVHCLNGGGRSGTFCACATVLEMI
RCHNLVDVFFAAKTLRNYKPNMVETMDQYHFCYDVALEYLEGLESR

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

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

PTPRU

Full Name

Protein tyrosine phosphatase receptor type U

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 intracellular catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP (MAM) domain, Ig-like and fibronectin type III-like repeats. This PTP was thought to play roles in cell-cell recognition and adhesion. Studies of the similar gene in mice suggested the role of this PTP in early neural development. The expression of this gene was reported to be regulated by phorbol myristate acetate (PMA) or calcium ionophore in Jurkat T lymphoma cells. Alternatively spliced transcript variants have been reported.

Alternative Names

PTPRU; FMI; PTP; PCP-2; PTP-J; PTPRO; PTPU2; PTP-PI; PTP-RO; PTPPSI; hPTP-J; R-PTP-U; R-PTP-PSI; receptor-type tyrosine-protein phosphatase U; PTP pi; Receptor protein tyrosine phosphatase hPTP-J; pancreatic carcinoma phosphatase 2; pi R-PTP-Psi; protein-tyrosine phosphatase J; protein-tyrosine phosphatase pi; protein-tyrosine phosphatase receptor omicron; receptor-type protein-tyrosine phosphatase psi; Protein tyrosine phosphatase receptor type U

Gene ID

[10076](#)

UniProt ID

[Q92729](#)