

Product Information

MemDX™ Membrane Protein Human PTPRN (Protein tyrosine phosphatase receptor type N)

Full Length

Cat. No.: **MPC1615K**

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

This product is a 105.8 kDa Human PTPRN 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

PTPRN

Protein Length

Full length

Protein Class

Receptor

Molecular Weight

105.8 kDa

TMD

1

Sequence

MRRPRRPGGLGGSGGLRLLLLLLLLSSRPGGCSAVSAHGCLFDRRLCSHL
EVCIQDGLFGQCQVGVGQARPLLQVTSPVLQRLQGVLRLMSQGLSWHDD
LTQYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLLQDIPTGSA
PAAQHRLPQPPVGKGGAGASSLSPLQAELLPPLEHLLLPPQPPHPSLS
YEPALLQPYLFHQFGSRDGSRVSEGSPGMVSVGPLPKAEAPALFSRTASK
GIFGDHPGHSYGDLPGPSPAQLFQDSGLLYLAQELPAPSRARVPRLPEQG
SSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAAALQRLAAVLAGYGVELR
QLTPEQLSTLLTLLQLLPKGAGRNPGGVVNVGADIKKMEGPVEGRDTAE
LPARTSPMPGHPTASPTSSEVQQVSPVSSEPPKAARPPVTPVLEKKSP
LGQSQPTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLLLEILAHEVHMS
SGSFINISVVGPAALTFRIRHNEQNLSLADVTTQAGLVKSELEAQTGLQIL
QTGVGQREEAAVLPQTAHSTSPMRSVLLTLVALAGVAGLLVALAVALCV
RQHARQQDKERLAALGPEGAHGDTTFEYQDLCRQHMAKSLFNRAEGPPE
PSRVSSVSSQFSDAAQASPSSHSSTPSWCCEPAQANMDISTGHMILAYME
DHLRNRDRLAKEWQALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYDHAR
IKLKVESSPSRSDYINASPIIHDPRMPAYIATQGPLSHTIADFWQMVWE
SGCTVIVMLTPLVEDGVKQCDRYWPDEGASLYHVYEVNLVSEHIWCEDFL
VRSFYLNKVNQTQETRLLTQFHFLSWPAEGTPASTRPLLDFFRRKVNKCYRG
RSCPIIVHCSDGAGRTGTYLIDMVLNRMAKGVKEIDIAATLEHVRDQRP

GLVRSKDQFEFALTAVAAEEVNAILKALPQ

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 -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

PTPRN

Full Name

Protein tyrosine phosphatase receptor type N

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 a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.

Alternative Names

PTPRN; IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP; receptor-type tyrosine-protein phosphatase-like N; ICA 512; PTP IA-2; insulinoma-associated tyrosine-phosphatase-like protein; islet cell antigen 2; islet cell antigen 512; islet cell autoantigen 3; protein tyrosine phosphatase-like N; Protein tyrosine phosphatase receptor type N

Gene ID

[5798](#)

UniProt ID

[Q16849](#)