

Product Information

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

Cat. No.: **MP0557J**

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

This product is a 103 kDa Human PTPRN membrane protein expressed in Sf9. 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

Druggable Genome, Transmembrane

Molecular Weight

103 kDa

TMD

1

Sequence

MRRPRRPGLGGSGGLRLLCLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQAR
PLLQVTSPVLQRLQGVLRQLMSQGLSWHDDLTYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGEL
LLQDIPTGSAPAAQHRLPQPPVGKGGAGASSLSPLQAELLPLLEHLLPPQPPHPSLSYEPALLQPYL
FHQFGSRDGSRVSEGSPPGMVSVGGLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSAQLFQDSGLLY
LAQELPAPSRARVPRLPEQGSSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAALQRLAAVLAGYGVELR
QLTPEQLSTLLTLLQLLPKGAGRNPGGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPTSSE
VQQVSPVSSPEPPKAARPPVTPVLEKKSPLGQSQPTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLL
EILAEHVHMSSGSFINISVVGPAITFRIRHNEQNLSLADVTQQAGLVKSELEAQTGLQILQTGVGQREEA
AAVLPTQAHSTSPMRSVLLTLVALAGVAGLLVALAVALCVRQHARQQDKERLAALGPEGAHGDTTFEYQD
LCRQHMATKSLFNRAEGPPEPSRVSSVSSQFSDAAQASPSHSTPSWCEEPAQANMDISTGHMILAYME
DHLRNRDRLAKEWQALCAYQAEPNTCATAQGEKNIKNRHPDFLPYDHARIKLKVESSPSRSDYINASPI
IEHDPRMPAYIATQGPLSHTIADFQMVWESGCTVIVMLTPLVEDGVKQCDRYWPDEGASLYHYEVNVLV
SEHIWCEDFLVRSFYLNQVQTQETRTLQFHFLSWPAEGTPASTRPLLDFFRKVNKCVRGRSCPIIVHCS
DGAGRTGTYLIDMVLNRMAGVKEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEVNAIKALPQ

Product Description

Expression Systems

Sf9

Tag

C-DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

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

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

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

IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP

Gene ID

[5798](#)

UniProt ID

[Q16849](#)