

## Product Information

**MemDX™ Membrane Protein Human PTPRN (Protein tyrosine phosphatase receptor type N)**  
**Expressed in *E.coli* with 6xHis tag at the N-terminus for Antibody Discovery, Partial (35-575aa)**

Cat. No.: **MPX4200K**

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

This product is a 61.3 kDa Human PTPRN membrane protein expressed in *E.coli*. 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

Partial (35-575aa)

#### Protein Class

Receptor

#### Molecular Weight

61.3 kDa

#### TMD

1

#### Sequence

VSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLLQVTSPVLQRLQGVLRLMSQGLSWHDDLTQYVISQEMERIPRLRPP

### Product Description

#### Expression Systems

*E.coli*

#### Tag

6xHis tag at the N-terminus

#### Protein Format

Soluble

**Form**

Liquid or Lyophilized powder

**Purity**

>85% as determined by SDS-PAGE.

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**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](#)