

## Product Information

### MemDX™ Membrane Protein Human PTPRN (Protein tyrosine phosphatase receptor type N) expressed in Sf9 for Antibody Discovery

Cat. No.: **MP0085Q**

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

This product is a 57.3 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

Partial

##### Protein Class

Druggable Genome, Transmembrane

##### Molecular Weight

57.3 kDa

##### Sequence

MRRPRRPGGLGGSGGLRLLLCLLLSSRPGGCSAVSAHGCLFDRLCSHLEVCIQDGLFGQCQVGQARPLLQVTSPVLQRLQ

#### Product Description

##### Expression Systems

Sf9

##### Tag

C-DDK

##### Form

Powder

##### Purity

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

##### Buffer

50mM Tris-HCl, pH8.0, 100mM 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; 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; protein tyrosine phosphatase-like N; Islet cell autoantigen 3

### **Gene ID**

[5798](#)

### **UniProt ID**

[Q16849](#)