



[Go to Product page](#)

Datasheet for ABIN7318592  
**PTPRN Protein (AA 687-979) (His tag)**

### Overview

Quantity:	50 µg
Target:	PTPRN
Protein Characteristics:	AA 687-979
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRN protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human IA2/PTPRN Protein (aa 687-979, His Tag)
Sequence:	Met687-Gln979
Characteristics:	Recombinant Human Islet Cell Antigen 2/Protein Tyrosine Phosphatase Receptor-type N is produced by our E.coli expression system and the target gene encoding Met687-Gln979 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	PTPRN
Alternative Name:	IA2/PTPRN ( <a href="#">PTPRN Products</a> )

## Target Details

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**Background:** Background: Receptor-type tyrosine-protein phosphatase-like N (PTPRN) belongs to the protein-tyrosine phosphatase family and receptor class 8 subfamily. PTPRN contains 1 tyrosine-protein phosphatase domain, is expressed in neuroendocrine cells only. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. It implicated in neuroendocrine secretory processes. It may be involved in processes specific for neurosecretory granules, such as their biogenesis, trafficking or regulated exocytosis or may have a general role in neuroendocrine functions. It seems to lack intrinsic enzyme activity, may play a role in the regulation of secretory granules via its interaction with SNTB2. 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.

Synonym: Receptor-type tyrosine-protein phosphatase-like N, R-PTP-N, Islet cell antigen 512, ICA 512, Islet cell autoantigen 3, PTP IA-2, PTPRN, ICA3, ICA512

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**Molecular Weight:** 35.6 kDa

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**UniProt:** [Q16849](#)

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## Application Details

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Frozen, Liquid

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**Buffer:** Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.

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**Storage:** -20 °C

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**Storage Comment:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

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