Datasheet for ABIN7318591 PTPRN Protein (AA 607-686, AA 795-888) (His tag)

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## Overview

Quantity:	50 µg
Target:	PTPRN
Protein Characteristics:	AA 607-686, AA 795-888
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 607-Asn686 & aa 795-888, His Tag)
Sequence:	GIn607-Asn686&Trp795-Leu888
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 Gln607- Asn686&Trp795-Leu888 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Target Details	

Target:	PTPRN
Alternative Name:	IA2/PTPRN (PTPRN Products)

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## Target Details

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
Molecular Weight:	22.9 kDa
UniProt:	Q16849
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 $\mu m$ filtered solution of PBS, pH 7.4.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

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