

Recombinant Human PTPRN, GST-tagged

Cat. No. PTPRN-457H Lot. No. (See product label)

SPECIFICATION

Product Overview	Protein tyrosine phosphatase. (PTP-IA2, ICA-PTP IA2 gel512), Catalytic domain, (a.a. 693-979), with N-terminal GST tag, MW=58.8 kDa, expressed in an E.coli expression system.
Species	Human
Source	E.coli
ProteinLength	693-979 a.a.
Description	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.
Form	25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, and 10 mM glutathione.
Purity	≥ 95%
Applications	Suitable for use as an immunogen, in binding assays or as an antigen in autoimmune

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assays.

Storage >6 months at -80°C

GENE INFORMATION

Gene Name PTPRN protein tyrosine phosphatase, receptor type, N [Homo sapiens (human)]

Official Symbol PTPRN

Synonyms PTPRN; IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP; protein tyrosine phosphatase, receptor type, N; receptor-type tyrosine-protein phosphatase-like N; ICA 512; PTP IA-2; islet cell antigen 2; islet cell antigen 512; islet cell autoantigen 3; protein tyrosine phosphatase-like N; EC 3.1.3.48

Gene ID 5798

mRNA Refseq NM_002846

Protein Refseq NP_002837

MIM 601773

UniProt ID Q16849

Chromosome Location 2q35-q36.1

Pathway Type I diabetes mellitus

Function GTPase binding; protein binding; spectrin binding

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