

## Recombinant Human IA2 Protein, GST-tagged

Cat. No. PTPRN-02H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PTPRN protein with a GST-tag was expressed in E. coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	256-760 a.a.
<b>Description</b>	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.
<b>Molecular Mass</b>	The protein has a calculated MW of 68.6 kDa.
<b>AA Sequence</b>	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSRVIAYSKDFE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FPKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSRQQ DKERLAALGPEGAHGDTTFEYQDLCRQHMATKSLFNRAEGPPEPSRVSSVSSQFS DAAQASPSHSSSTPSWCPEPAQANMDISTGHMILAYMEDHLRNRDRLAKEWQALC

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AYQAEPNTCATAQGEGNIKKNRHPDFLPYDHARIKLVESPPSRSDYINASPIIEHDP  
 RMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWPDEGAS  
 LYHVYEVNLVSEHIWCEDFLVRSFYLKNVQTQETRILTQFHFLSWPAEGTPASTRPL  
 LDFRRKVNKCYRGRSCPIIVHCSDGAGRTGTYILIDMVLNRMAGVKEIDIAATLEHV  
 RDQRPGLVRSKDQFEFALTAVAEVNAILKALPQ

**Purity** >95% by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage Buffer** Lyophilized from 50mM Tris -HCl, 300mM NaCl, pH8.0

## GENE INFORMATION

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

**Official Symbol** [PTPRN](#)

**Synonyms** PTPRN; protein tyrosine phosphatase receptor type N; 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; EC 3.1.3.48

**Gene ID** [5798](#)

**mRNA Refseq** [NM\\_002846](#)

**Protein Refseq** [NP\\_002837](#)

**MIM** [601773](#)

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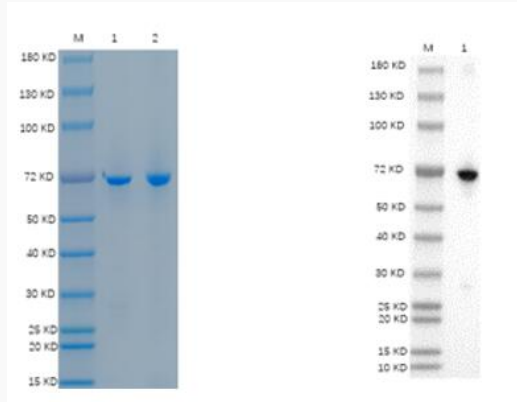
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UniProt ID

Q16849

SDS-PAGE:



Reducing 12% SDS-PAGE analysis profile of purified IA2

1. IA2
2. BSA

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