

Recombinant Human IA2 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human PTPRN protein with a GST-tag was expressed in E. coli
Species	Human
Source	E.coli
ProteinLength	256-760 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.
Molecular Mass	The protein has a calculated MW of 68.6 kDa.
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSRRIAYSKDFE TLKVDFLSKLPPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FPKLVCFKKRIEAIPIQIDKYLKSSKYIAWPLQGWWQATFGGGDHPPKSDLVPRGSRQQ DKERLAALGPEGAHGDTTFEYQDLCRQHMATKSLFNRAEGPPEPSRVSSVSSQFS DAAQASPSSHSTPSWCCEPAQANMDISTGHMILAYMEDHLRNRDRLAKEWQALC

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AYQAEPNTCATAQGEGNIKKNRHPDFLPYDHARIKLVESSPSRSDYINASPIIEHDP
RMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWPDEGAS
LYHVYEVNVLVSEHIWCEDFLVRSFYLKNVQTQETRILTQFHFLSWPAEGTPASTRPL
LDFRRKVNKCVRGRSCPIIVHCSDGAGRTGTIYLIDMVLNRMAGVKVEIDIAATLEHV
RDQRPGLVRSKDQFEFALTAVAEVNAIKALPQ

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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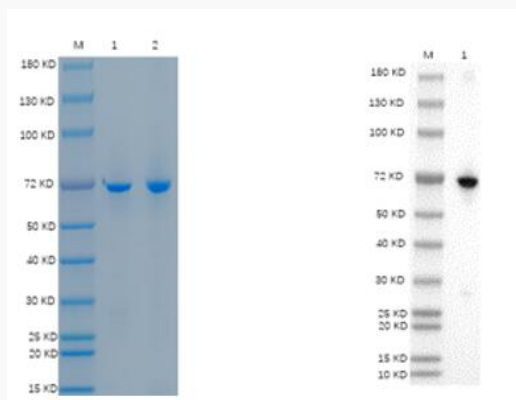
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UniProt ID

Q16849

SDS-PAGE:



Reducing 12% SDS-PAGE analysis profile of purified IA2

1. IA2

2. BSA

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