

Recombinant Human IA2, His-tagged

Cat. No. IA2-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IA2(NP_001186692.1), fused to His-tag, was expressed in insect cell.
Species	Human
Source	Insect Cells
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	PBS, pH 7.4.
Molecular Mass	The protein has a calculated MW of 102 kDa.
AA Sequence	HHHHHHMSSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLL QVTSPVLQRLQGVLRQLMSQGLSWHDDLTQYVISQEMERIPRLRPPEPRPRDRSGL APKRPGPAGELLQDIPTGSAPAAQHRLPQPPVGKGGAGASSLSPLQAELLPLLE HLLLPPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEGPSGMVSVGPLPKAEAPA LFSRTASKGIFGDHPGHSYGDLPGPSAQLFQDSGLLYLAQELPAPSNARVPRLPE

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QGSSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAALQRLAAVLAGYGVELRQLT
 PEQLSTLLTLLQLLPKGAGRNPGGVVNVGADIKKTMIEGPVEGRDTAELPARTSPMP
 GHPTASPTSSEVQQVPSPVSSEPPKAARPPVTPVLLEKKSPLGQSQPTVAGQPSAR
 PAAEEYGYIVTDQKPLSLAAGVKLEILAEHVMSSSGSFINISVVGPAITFRIRHNEQN
 LSLADVTQQAGLVKSELEAQTGLQILQTGVGQREEAAVLPQTAHSTSPMRSVRQH
 ARQQDKERLAALGPEGAHGDTTFEYQDLCRQHMAKSLFNRAEGPPEPSRVSSVS
 SQFSDAAQASPSHSSTPSWCEEPAQANMDISTGHMILAYMEDHLRNRDRLAKEW
 QALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYDHARIKLKVESSPSRSDYINASPII
 EHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWPD
 EGASLYHVVEVNLVSEHIWCEDFLVRSFYLNKVTQETRTLTQFHFLSWPAEGTPA
 STRPLLDFFRRKVNKCYRGRSCPIIVHCSDGAGRTGTIYILDMVLNRMAGVKVEIDIAA
 TLEHVRDQRPGLVRSKDQFEFALTAVAEVNAIKALPQ

Purity	>90%, by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.03 mg/ml

GENE INFORMATION

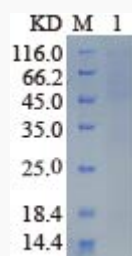
Gene Name	PTPRN protein tyrosine phosphatase receptor type N [Homo sapiens (human)]
Official Symbol	IA2
Synonyms	IA2; IA-2; ICA512; R-PTP-N; IA-2/PTP
Gene ID	5798
mRNA Refseq	NM_001199763.2

Protein Refseq [NP_001186692.1](#)

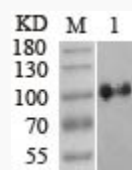
MIM [601773](#)

UniProt ID [Q16849](#)

SDS-PAGE of IA2-01HFL



Western blot of IA2-01HFL



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