

Recombinant Human PTPRN2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPRN2-2429H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPRN2 MS Standard C13 and N15-labeled recombinant protein (NP_570857) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein with sequence similarity to receptor-like protein tyrosine phosphatases. However, tyrosine phosphatase activity has not been experimentally validated for this protein. Studies of the rat ortholog suggest that the encoded protein may instead function as a phosphatidylinositol phosphatase with the ability to dephosphorylate phosphatidylinositol 3-phosphate and phosphatidylinositol 4,5-diphosphate, and this function may be involved in the regulation of insulin secretion. This protein has been identified as an autoantigen in insulin-dependent diabetes mellitus. Alternative splicing results in multiple transcript variants.
Molecular Mass	109.4 kDa
AA Sequence	MGPPLPLLLLLLLLLLPPRVLPAPSSVPRGRQLPGRLDGVFGRCQKVPAMDFYRYE VSPVALQRLRVALQKLSGTGFTWQDDYTQYVMDQELADLPKTYLRRPEASSPARPS KHSVGSERRYSREGGAALANALRRHLPFLEALSQAPASDVLARTHTAQDRPPAEGD DRFSESILTYVAHTSALTYPGPRTQLREDLLPRTLGLQLQPDELSPKVDGSDVRHHL MAALSAYAAQRPPAPPGECSLEPQYLLRAPSRMPRPLLAPAAPQKWPSPLGDS

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PSSTGDGARIHTLLKDLQRQPAEVRGLNGLELDGMAELMAGLMQGVHDHGVARGSP
 GRAALGESGEQADGPKATLRGDSFPDDGVQDDDDRLYQEVHRLSATLGGLLQDHG
 SRLLPGALPFARPLDMERKKSEHPLESSSSEETAGVENVKSQTYSKDLLGQQPHS
 EPGAAAFGELQNQMPPGPSKEEQSLPAGAEALSDGLQLEVQPSEEEARGYIVTDR
 DPLRPEEGRRLLVEDVARLLQVPSSAFADVEVLGPAVTFKVSANVQNVTTEDVEKAT
 VDNKDKLEETSGLKILQTGVGSKSKLKFLPPQAEQEDSTKFIALTLVSLACILGVLLAS
 GLIYCLRHSSQHRLKEKLSGLGGDPGADATAAYQELCRQRMATRPPDRPEGPHTS
 RISSVSSQFSDGPIPSARSSASSWSEEPVQSNMDISTGHMILSYMEDHLKNKNRL
 EKEWEALCAYQAEPNSSFVAQREENVPKNRSLAVLTYDHSRVLLKAENSHSHSDYI
 NASPIMDHDPRNPAYIATQGPLPATVADFWQMVWESGCVVIMLTPLAENGVRQCY
 HYWPDEGSNLYHIYEVNLVSEHIWCEDFLVRSFYLNKLTNETRTVTQFHFLSWYD
 RGVPSRSSRLLDFRRKVNKCYRGRSCPIIVHCSDGAGRSGTYVLIDMVLNKMMAKGA
 KEIDIAATLEHLRDQRPGMVQTKEQFEFALTAVAAEEVNAILKALPQSGPTRTRRLEQK
 LISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

PTPRN2 protein tyrosine phosphatase receptor type N2 [Homo sapiens (human)]

Official Symbol

PTPRN2

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Synonyms PTPRN2; protein tyrosine phosphatase, receptor type, N polypeptide 2; receptor-type tyrosine-protein phosphatase N2; IA 2beta; IAR PTPRP; ICAAR; KIAA0387; phogrin; tyrosine phosphatase IA-2 beta; islet cell autoantigen-related protein; protein tyrosine phosphatase receptor pi; IAR/receptor-like protein-tyrosine phosphatase; IAR; PTPRP; IA-2beta; R-PTP-N2;

Gene ID [5799](#)

mRNA Refseq [NM_130842](#)

Protein Refseq [NP_570857](#)

MIM [601698](#)

UniProt ID [Q92932](#)

SDS-PAGE

