

Product datasheet for PH313126

PTPRN2 (NM_130842) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTPRN2 MS Standard C13 and N15-labeled recombinant protein (NP_570857)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213126
Predicted MW:	109.4 kDa
Protein Sequence:	>RC213126 representing NM_130842 Red=Cloning site Green=Tags(s)

MGPPPLPLLLLLLLLLPPRVLPAAPSSVPRGRQLPGRLDGVFGRCQKVPAMDFYRYEVSPVALQRLRVALQ
KLSGTGFTWQDDYTQYVMDQELADLPKTYLRRPEASSPARPSKHVSGSERRYSREGGAALANALRRHLPF
LEALSQAPASDVLARTHTAQRPPAEGDDRFSE SILTYVAHTSALTYPPGPRTQLREDLLPRTLGGQLQPD
ELSPKVDSGVDRHHLMAAL SAYAAQRPPAPPGEGLSELPQYLLRAPSRMPRPLLAAPQKWPSPGLDSED
PSSTGDGARIHTLLKDLQRQPAEVRGLNGLELDGMAELMAGLMQGVHDHGVARGSPGRAALGESGEQADGP
KATLRGDSFPDDGVQDDDDRL YQEVHRL SATLGGLLQDHGSRLLPALPFARPLDMERKKSEHPSSLS
EEETAGVENVKSQTYSKDLLGQQPHSEPGAAAFGELQNQMPGPSKEEQSLPAGAQEALSDGLQLEVQPSE
EEARGYIVTDRDPLRPEEGRRLLVEDVARLLQVPSSAFADVEVLGPAVTFKYSANVQNVTTEDVEKATVDN
KDKLEETSGLKILQTVGSGSKLKFPPQAEQEDSTKFIALTLVSLACILGVLLASGLIYCLRHSSQHRL
KEKLSGLGGDPGADATAAYQELCRQRMATRPDRPEGPHTSRISVSSQFSDGPIPSPSARSSASSWSEE
PVQSNMDISTGHMILSYMEDHLKNKNRLEKEWEALCAYQAEPNSSFVAQREENVPKNRSLAVLTYDHSRV
LLKAENSHSHSDYINASPIMDHDPNPAYIATQGPLPATVADFWQMVWESGCVVIVMLTPLAENGVRQCY
HYWPDEGSNLHYIYEVNLVSEHIWCEDFLVRSFYLNKLTNETRTVTQFHFLSWYDRGVPSSSRLLDFR
RKVNKCYRGRSCEIIVHCSGDGAGRSPTYVLDIMVLNMAKGAKEIDIAATLEHLRDRQPGMVQTKQEF
ALTAVAEVNAILKALPQ

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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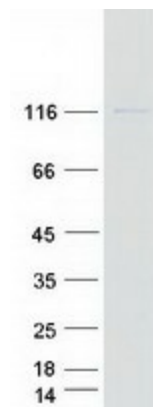
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_570857
RefSeq Size:	4716
RefSeq ORF:	2994
Synonyms:	IA-2beta; IAR; ICAAR; PTPRP; R-PTP-N2
Locus ID:	5799
UniProt ID:	Q92932
Cytogenetics:	7q36.3

Summary: 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. [provided by RefSeq, Feb 2015]

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Type I diabetes mellitus

Product images:



Coomassie blue staining of purified PTPRN2 protein (Cat# [TP313126]). The protein was produced from HEK293T cells transfected with PTPRN2 cDNA clone (Cat# [RC213126]) using MegaTran 2.0 (Cat# [TT210002]).