

Product datasheet for TP304902M

PTP1B (PTPN1) (NM_002827) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, non-receptor type 1 (PTPN1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204902 protein sequence Red =Cloning site Green =Tags(s)

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNNRNRVSPFDHSRIKLHQEDNDYINAS
LIKMEEAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKCAQYWPQKEEKEMIFEDT
NL
KLTLISEDIKSYYTVRQLELENLTTQETREILHFHYTTWPDFGVPEPASPFLNFLFKVRESGSLSPHEGHP
VVHCSAGIGRSGTFCLADTCLLLMDKRDPSVDIKKVLLEMRFKRMGLIQTADQLRFSYLAVIEGAKF
IMGDSSVQDQWKELSHEDLEPPPEHIPPPIPPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEK
GSPLNAAPYGIEMSQDTEVRSRVVGGSLRGAQAASPAKGEPSLPEKDEDHALSYWKPFVLMCVATVLT
AGAYLCYRFLFNSNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

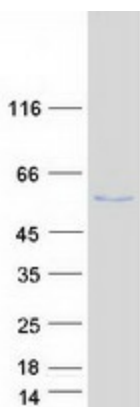
Tag:	C-Myc/DDK
Predicted MW:	49.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002818
Locus ID:	5770
UniProt ID:	P18031
RefSeq Size:	3573
Cytogenetics:	20q13.13
RefSeq ORF:	1305
Synonyms:	PTP1B
Summary:	The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. 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 has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	Adherens junction, Insulin signaling pathway

Product images:



Coomassie blue staining of purified PTPN1 protein (Cat# [TP304902]). The protein was produced from HEK293T cells transfected with PTPN1 cDNA clone (Cat# [RC204902]) using MegaTran 2.0 (Cat# [TT210002]).