

Product datasheet for TP320032M

PTPD1 (PTPN21) (NM_007039) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, non-receptor type 21 (PTPN21), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220032 representing NM_007039 Red=Cloning site Green=Tags(s)

MPLPFGLKLRTRYTVSSKSLVARIQLLNNEFVEFTLSVESTGQESLEAVAQRLELREVTYFSLWYYN
KQNQRRWVDLEKPLKKQLDKYALEPTVYFGVVFVPSVSQLQEQITRYQYYLQKKDILEGSIPCTLEQA
IQLAGLAVQADFGDFDQYESQDFLQKFALFPVGLWQDEKVLLEATQKVALLHQYRGLTAPDAEMLYMQE
VERMDGYGEESYPAKDSQGSISIGACLEGIFVKHKNGRHPVFRWHDIANMSHNKSFFALELANKEETI
QFQTEDMETAKYIWRLCVARHKFYRLNQCNLQTQTVTVNPIRRRSSRMSLPKPQPYVMPPPPQLHYNGH
YTEPYASSQDNLFVFNQNGYYCHSQTSLDRAQIDLNGRIRNGSVYSAHSTNSLNNPQPYLQPSMSSNPS
ITGSDVMRPDYLP SHRS AVIPPSYRPTPDYETVMKQLNRGLVHAERQSHSLRNLNIGSSYAYSRAALV
YSQPEIREHAQLPSPAAAHC PFSLSYSFHSPSPYPYPAERRPVV GAVSVPELTNAQLQAQDYSPNIMRT
QVYRPPPPYPPR PANSTPDL SRHLYISSSNPDLITRRVHHSVQTFQEDSLPVAHSLQEVSEPLTAARHA
QLHKRNSIEVAGLSHGLEGLRLKERTLSASAAEVAPRAVSQSPVFTERTQREGPEEAEGRLYGHKKS
LSDATMLIHSSEEEDEDFEESGARAPPARAREPRGLAQDPPGCPVLLAGPLHILEPKAHVPDAEKR
MMDSSPVRTTAEARQPWRDGLLMPMSSES DLTTSGRYRARRDSLKKRPVSDLLSGKKNIVEGLPPLGGMK
KTRVDAKKIGPLKLAALNGLSLSRVLPDEGKEVATRATNDERCKILEQRLEQGMVFTeyerilkkRLVD
GECSTARLPENAERNRFQDVL PYDDVRVELVPTKENNTGYINASHIKVSVSGIEWDYIATQGPLQNTCQD
FWQM VWEQGIAIAMVTAEEEGGREKSFYWPRLGSRHNTVTYGRFKITTRFRDTS GCYATTGLKMKHLL
TGQERTVWHLQYTDWPEHGCPEDLKGFLSYLEEIQSVRRHTNSTDPQSPNPPLL VHCSAGVGR TGWVIL
SEIMIACLEHNEVLDIPRVL DMLRQQRMMMLVQTL CQYTFVYRVLIQFLKSSRLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

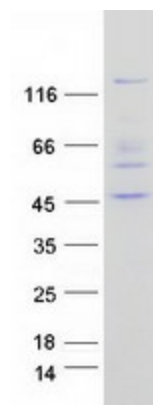
Tag:	C-Myc/DDK
Predicted MW:	133.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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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.
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_008970
Locus ID:	11099
UniProt ID:	Q16825
RefSeq Size:	4234
Cytogenetics:	14q31.3
RefSeq ORF:	3522
Synonyms:	PTPD1; PTPRL10
Summary:	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 contains an N-terminal domain, similar to cytoskeletal-associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Phosphatase

Product images:



Coomassie blue staining of purified PTPN21 protein (Cat# [TP320032]). The protein was produced from HEK293T cells transfected with PTPN21 cDNA clone (Cat# [RC220032]) using MegaTran 2.0 (Cat# [TT210002]).