

## Product datasheet for TP320032

### 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), 20 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  
VERMDGYGEESYPAKDSQGSISIGACLEGIFVKHKNGRHPVFRWHDIANMSHNKSFALANKEETI  
QFQTEDMETAKYIWRLCVARHKFYRLNQCENLQTQTVTVNPIRRRSSRMSLPKPQPYVMPPPPQLHYNGH  
YTEPYASSQDNLFVFNQNGYYCHSQTSLDRAQIDLNGRIRNGSVYSAHSTNSLNNPQPYLQPSMSSNPS  
ITGSDVMRPDYLP SHRS AVIPPSYRPTPDYETVMKQLNRGLVHAERQSHSLRNLNIGSSYAYSRAALV  
YSQPEIREHAQLPSPAAAHC PFSLSYSFHSPSPYPYPAERRPVV GAVSVPELTNAQLQAQDYSPNIMRT  
QVYRPPPPYPPRANSTPDLRHLIYSSSNPDLITRRVHHSVQTFQEDSLPVAHSLQEVSEPLTAARHA  
QLHKRNSIEVAGLSHGLEGLRLKERTLSASAAEVAPRAVSQPSVFTERTQREGPEEAEGRLYGHKKS  
LSDATMLIHSSEEEDEDFEESGARAPPARAREPRGLAQDPPGCPVLLAGPLHILEPKAHVPDAEKR  
MMDSSPVRTTAEARQPWRDGLLMPMSSES DLTTSGRYRARRDSLKKRPVSDLLSGKKNIVEGLPPLGGMK  
KTRVDAKKIGPLKLAALNGLSLSRVLPDEGKEVATRATNDERCKILEQRLEQGMVFTEYERILKKRLVD  
GECSTARLPENAERNRFQDVL PYDDVRVELVPTKENNTGYINASHIKVSVSGIEWDYIATQGPLQNTCQD  
FWQM VWEQGIAIAMVTAEEEGGREKSFYWPRLGSRHNTVTYGRFKITTRFRDTS GCYATTGLKMKHLL  
TGQERTVWHLQYTDWPEHGCPEDLKGFLSYLEEIQSVRRHTNSTDPQSPNPPLL VHCSAGVGR TGWVIL  
SEIMIACLEHNEVLDIPRVL DMLRQQRMMMLVQTL CQYTFVYRVLIQFLKSSRLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

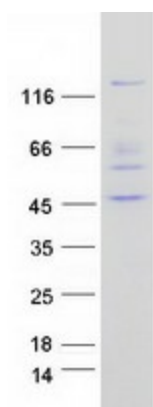
Tag:	C-Myc/DDK
Predicted MW:	133.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_008970</a>
<b>Locus ID:</b>	11099
<b>UniProt ID:</b>	<a href="#">Q16825</a>
<b>RefSeq Size:</b>	4234
<b>Cytogenetics:</b>	14q31.3
<b>RefSeq ORF:</b>	3522
<b>Synonyms:</b>	PTPD1; PTPRL10
<b>Summary:</b>	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]
<b>Protein Families:</b>	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]).