

Product datasheet for PH320032

PTPD1 (PTPN21) (NM_007039) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTPN21 MS Standard C13 and N15-labeled recombinant protein (NP_008970)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220032
Predicted MW:	133.1 kDa
Protein Sequence:	>RC220032 representing NM_007039 Red=Cloning site Green=Tags(s)

MPLPFGLKLRTRYTVSSKSLVARIQLLNNEFVEFTLSVESTGQESLEAVAQRLELREVTYFSLWYYN
KQNQRWVDLEKPLKKQLDKYALEPTVYFGVVFYVPSVSQLQEI TRYQYYLQLKKDILEGSIPCTLEQA
IQLAGLAVQADFQDFDQYESQDFLQKFAFPVQWLQDEKVLLEATQKVALHQQYRGLTAPDAEMLYMQE
VERMDGYEESYPAKDSQGSDISIGACLEGIFVKHKNGRHPVFRWHDIANMSHNKSFFALELANKEETI
QFQTEDMETAKYIWRLCVARHKFYRLNQCNLQTQTVTVNPITRRSSSRMSL PKPQPYVMPPPPQLHYNGH
YTEPYASSQDNLFVFNQNGYYCHSQTSLDRAQIDLNGRIRNGSVYSAHSTNSLNNPQPYLQSPMSSNPS
ITGSDVMRPDYLP SHRHS AVIPPSYRPTDYETVMKQLNRGLVHAERQSHSLRNLNIGSSYAYS RPAALV
YSQPEIREHAQLPSPAAAHCPFSLSYSFHSPSPYPYPAERRPVVAVSVPEL TNAQLQAQDYPSPNIMRT
QVYRPPPPYPPRPANSTPDL SRHLYISSNPDLITRRVHHSVQTFQEDSLPVAHSLQEVSEPLTAARHA
QLHKRNSIEVAGLSHGLEGLRLKERTLSASAAEVAPRAVSVGSQPSVFTERTQREGPEEAELRYGHKKS
LSDATMLIHSSEEEDEDFEESGARAPPARAREPRGLAQDPPGCPRVLLAGPLHILEPKAHVPDAEKR
MMDSSPVRTTAEAQRPWRDGLLMPMSSESDLTTSGRYRARRDSLKKRPVSDLLSGKKNIVEGLPPLGGMK
KTRVDAKKIGPLKLAALNGLSLSRVPLPDEGKEVATRATNDERCKILEQRLEQGMVFTEYERILKKRLVD
GECSTARLPENAERNRFQDVL PYDDVRVELVPTKENNTGYINASHIKVSVSGIEWDYIATQGPLQNTCQD
FWQMVWEQGI AIAMVTAE EEGREKSFYWPRLGSRHNTVTYGRFKITTRFRDTS GCYATTGLKMKHLL
TGQERTVWHLQYTDWPEHGCPEDLKGFLSYLEEIQSVRRHTNSTSDPQSPNPPLL VHCSAGVGRGTGVVIL
SEIMIAACLEHNEVLDIPRVL DMLRQQRMLLVQTL CQYTFVYRVLIQFLKSSRLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

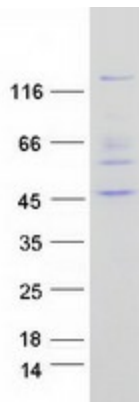
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_008970
RefSeq Size:	4234
RefSeq ORF:	3522
Synonyms:	PTPD1; PTPRL10
Locus ID:	11099
UniProt ID:	Q16825
Cytogenetics:	14q31.3
Summary:	<p>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]</p>
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]).