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PTPN1 Protein (Myc-DYKDDDDK Tag)



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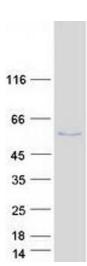
Overview		
Quantity:	20 μg	
Target:	PTPN1	
Origin:	Human	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This PTPN1 protein is labelled with Myc-DYKDDDDK Tag.	
Application:	Antibody Production (AbP), Standard (STD)	
Product Details		
Characteristics:	Recombinant human PTPN1 protein expressed in HEK293 cells.	
	Produced with end-sequenced ORF clone	
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining	
Target Details		
Target:	PTPN1	
Alternative Name:	Ptpn1 (PTPN1 Products)	
Background:	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	

Target Details	
	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 phosphotryosine 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.
Molecular Weight:	49.8 kDa
NCBI Accession:	NP_002818
Pathways:	TLR Signaling, Response to Growth Hormone Stimulus, ER-Nucleus Signaling, Platelet-derived
	growth Factor Receptor Signaling
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for ontimized antibody production

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	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

Concentration:	50 μg/mL	
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze	
	immediately. Only 2-3 freeze thaw cycles are recommended.	



Western Blotting

Image 1. Validation with Western Blot