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PTPN1 Protein (DYKDDDDK Tag)





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Quantity:	20 μg	
Target:	PTPN1	
Origin:	Human	
Source:	Insect cells (Sf9)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This PTPN1 protein is labelled with DYKDDDDK Tag.	
Application:	Antibody Production (AbP), Standard (STD)	
Product Details		
Characteristics:	 Recombinant human PTPN1 (full length, C-term DDK tag) protein expressed in Sf9 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	

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.

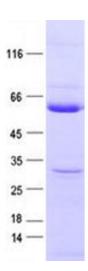
Molecular Weight:	49.8 kDa
NCBI Accession:	NP_002818
Pathways:	TLR Signaling, Response to Growth Hormone Stimulus, ER-Nucleus Signaling, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Recombinant human proteins can be used for:
	Native antigens for 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:	50 mM Tris-HCl, pH 8.0, 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