

Datasheet for ABIN5542666
anti-PTPN1 antibody (AA 40-246)

3 Images

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Overview

Quantity:	0.1 mg
Target:	PTPN1
Binding Specificity:	AA 40-246
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTPN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human PTPN1 (AA: 40-246) expressed in E. coli.
Clone:	4F8F2
Isotype:	IgG2b
Purification:	purified

Target Details

Target:	PTPN1
Alternative Name:	PTPN1 (PTPN1 Products)
Background:	Description: 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

Target Details

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 phosphotyrosine 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.

Aliases: PTP1B

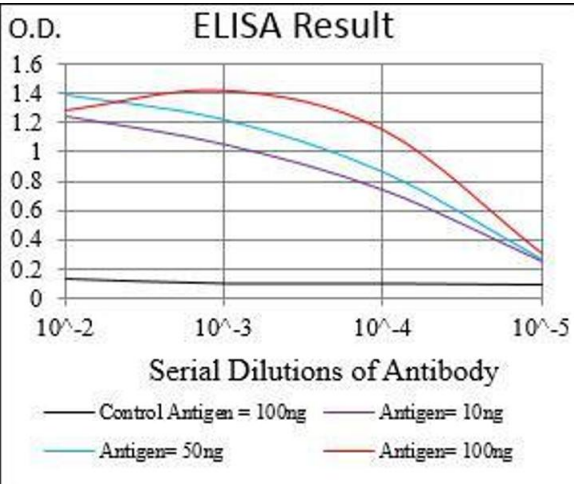
Molecular Weight:	50 kDa
Gene ID:	5770
HGNC:	5770
Pathways:	TLR Signaling , Response to Growth Hormone Stimulus , ER-Nucleus Signaling , Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000
Restrictions:	For Research Use only

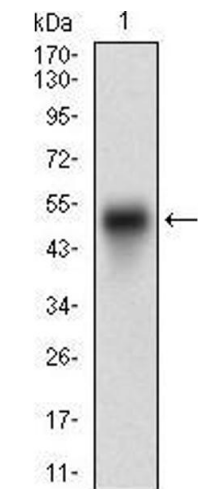
Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage



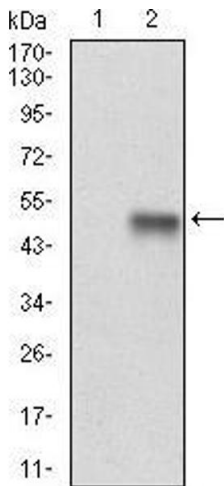
ELISA

Image 1. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



Western Blotting

Image 2. Western blot analysis using PTPN1 mAb against human PTPN1 (AA: 40-246) recombinant protein. (Expected MW is 50 kDa)



Western Blotting

Image 3. Western blot analysis using PTPN1 mAb against HEK293 (1) and PTPN1 (AA: 40-246)-hlgGfc transfected HEK293 (2) cell lysate.