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Datasheet for ABIN7317110
PTPN1 Protein (His tag)

1 Image

Overview

Quantity:	100 µg
Target:	PTPN1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PTPN1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PTP1B/PTPN1 Protein (His Tag)(Active)
Sequence:	Glu 2-Asn 321
Characteristics:	A DNA sequence encoding the human PTPN1 (NP_002818.1) (Glu 2-Asn 321) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its ability to dephosphorylate a phosphotyrosine residue in an EGF receptor (aa988-998) phosphopeptide substrate, R&D Systems, Catalog # ES006. The specific activity is > 15 nmoles/min/µg.

Target Details

Target:	PTPN1
Alternative Name:	PTP1B/PTPN1 (PTPN1 Products)

Target Details

Background: Background: PTP1B, also known as PTPN1, belongs to the protein-tyrosine phosphatase (PTP) family. 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. PTP1B contains 1 tyrosine-protein phosphatase domain and is expressed in many tissues. PTP1B is localized to the cytoplasmic face of the endoplasmic reticulum. PTP1B was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of PTP1B in cell growth control, and cell response to IFN stimulation.

Synonym: PTP1B,PTPN1

Molecular Weight: 38 kDa

NCBI Accession: [NP_002818](#)

Pathways: [TLR Signaling](#), [Response to Growth Hormone Stimulus](#), [ER-Nucleus Signaling](#), [Platelet-derived growth Factor Receptor Signaling](#)

Application Details

Restrictions: For Research Use only

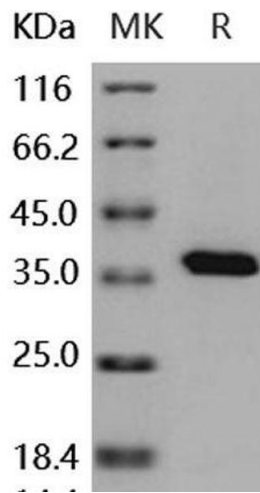
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 10 mM Hepes, 150 mM NaCl, 1 mM DTT, pH 7.5

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.