

PTP1B (phospho Ser50) Polyclonal Antibody

Catalog # AP67654

Specification

PTP1B (phospho Ser50) Polyclonal Antibody - Product Information

Application WB, IHC-P Primary Accession P18031

Reactivity Human, Mouse, Rat, Monkey

Host Rabbit Clonality Polyclonal

PTP1B (phospho Ser50) Polyclonal Antibody - Additional Information

Gene ID 5770

Other Names

PTPN1; PTP1B; Tyrosine-protein phosphatase non-receptor type 1; Protein-tyrosine phosphatase 1B; PTP-1B

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~ \sim N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

PTP1B (phospho Ser50) Polyclonal Antibody - Protein Information

Name PTPN1

Synonyms PTP1B

Function

Tyrosine-protein phosphatase which acts as a regulator of endoplasmic reticulum unfolded protein response. Mediates dephosphorylation of EIF2AK3/PERK; inactivating the protein kinase activity of EIF2AK3/PERK. May play an important role in CKII- and p60c- src-induced signal transduction cascades. May regulate the EFNA5-EPHA3 signaling pathway which modulates cell reorganization and cell-cell repulsion. May also regulate the hepatocyte growth factor receptor signaling pathway through dephosphorylation of MET.

Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side Note=Interacts with EPHA3 at the cell membrane



Tissue Location

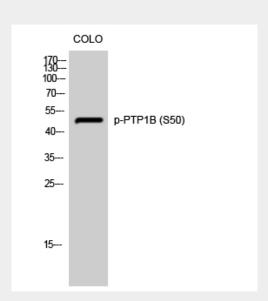
Expressed in keratinocytes (at protein level).

PTP1B (phospho Ser50) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

PTP1B (phospho Ser50) Polyclonal Antibody - Images



Western Blot analysis of COLO cells using Phospho-PTP1B (S50) Polyclonal Antibody diluted at $1 \square 500$

PTP1B (phospho Ser50) Polyclonal Antibody - Background

Tyrosine-protein phosphatase which acts as a regulator of endoplasmic reticulum unfolded protein response. Mediates dephosphorylation of EIF2AK3/PERK; inactivating the protein kinase activity of EIF2AK3/PERK. May play an important role in CKII- and p60c-src-induced signal transduction cascades. May regulate the EFNA5-EPHA3 signaling pathway which modulates cell reorganization and cell-cell repulsion. May also regulate the hepatocyte growth factor receptor signaling pathway through dephosphorylation of MET.