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PTP1B Antibody (aa16-65)

Rabbit Polyclonal Antibody

Catalog # ALS15076

Specification

PTP1B Antibody (aa16-65) - Product Information

Application	**WB**
Primary Accession	P18031
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50kDa KDa**

PTP1B Antibody (aa16-65) - Additional Information

Gene ID 5770

Other Names
Tyrosine-protein phosphatase non-receptor type 1, 3.1.3.48, Protein-tyrosine phosphatase 1B, PTP-1B, PTPN1, PTP1B

Target/Specificity
PTP1B Antibody detects endogenous levels of total PTP1B protein.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
PTP1B Antibody (aa16-65) is for research use only and not for use in diagnostic or therapeutic procedures.

PTP1B Antibody (aa16-65) - 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).

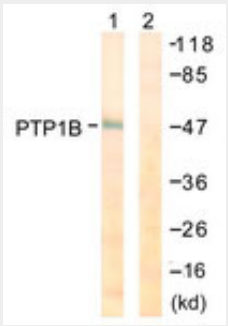
Volume
50 µl

PTP1B Antibody (aa16-65) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PTP1B Antibody (aa16-65) - Images



Western blot of extracts from COS7 cells, treated with UV 30', using PTP1B Antibody.

PTP1B Antibody (aa16-65) - 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.

PTP1B Antibody (aa16-65) - References

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Brown-Shimer S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:5148-5152(1990).
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Deloukas P.,et al.Nature 414:865-871(2001).
Charbonneau H.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:5252-5256(1989).