

PTPa Antibody (S180)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8412D

Specification

PTPa Antibody (S180) - Product Information

Application	WB,E
Primary Accession	P18433
Other Accession	Q03348 , P18052
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	169-196

PTPa Antibody (S180) - Additional Information

Gene ID 5786

Other Names

Receptor-type tyrosine-protein phosphatase alpha, Protein-tyrosine phosphatase alpha, R-PTP-alpha, PTPRA, PTPA, PTPRL2

Target/Specificity

This PTPa antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 169-196 amino acids from human PTPa.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PTPa Antibody (S180) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPa Antibody (S180) - Protein Information

Name PTPRA

Synonyms PTPA, PTPRL2

Function Tyrosine protein phosphatase which is involved in integrin- mediated focal adhesion formation (By similarity). Following integrin engagement, specifically recruits BCAR3, BCAR1 and CRK to focal adhesions thereby promoting SRC-mediated phosphorylation of BRAC1 and the subsequent activation of PAK and small GTPase RAC1 and CDC42 (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P18052}. Note=Localizes to focal adhesion sites following integrin engagement. {ECO:0000250|UniProtKB:P18052}

PTPa Antibody (S180) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTPa Antibody (S180) - Images**PTPa Antibody (S180) - Background**

PTPa is a member of the protein tyrosine phosphatase (PTP) family. 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 contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation.

PTPa Antibody (S180) - References

Deloukas, P., et al., Nature 414(6866):865-871 (2001).
Kaplan, R., et al., Proc. Natl. Acad. Sci. U.S.A. 87(18):7000-7004 (1990).
Krueger, N.X., et al., EMBO J. 9(10):3241-3252 (1990).
Sap, J., et al., Proc. Natl. Acad. Sci. U.S.A. 87(16):6112-6116 (1990).
Jirik, F.R., et al., FEBS Lett. 273 (1-2), 239-242 (1990).