

PTPRH Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2718a

Specification

PTPRH Antibody (internal region) - Product Information

Application	E
Primary Accession	O9HD43
Other Accession	NP_002833.2 , 5794
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	122353

PTPRH Antibody (internal region) - Additional Information

Gene ID 5794

Other Names

Receptor-type tyrosine-protein phosphatase H, R-PTP-H, 3.1.3.48, Stomach cancer-associated protein tyrosine phosphatase 1, SAP-1, Transmembrane-type protein-tyrosine phosphatase type H, PTPRH, SAP1

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PTPRH Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPRH Antibody (internal region) - Protein Information

Name PTPRH

Synonyms SAP1

Function

Protein phosphatase that may contribute to contact inhibition of cell growth and motility by mediating the dephosphorylation of focal adhesion-associated substrates and thus negatively regulating integrin- promoted signaling processes. Induces apoptotic cell death by at least two distinct mechanisms: inhibition of cell survival signaling mediated by PI 3-kinase, Akt, and ILK and

activation of a caspase-dependent proapoptotic pathway. Inhibits the basal activity of LCK and its activation in response to TCR stimulation and TCR-induced activation of MAP kinase and surface expression of CD69. Inhibits TCR-induced tyrosine phosphorylation of LAT and ZAP70. Inhibits both basal activity of DOK1 and its CD2-induced tyrosine phosphorylation. Induces dephosphorylation of BCAR1, focal adhesion kinase and SRC. Reduces migratory activity of activity of Jurkat cells. Reduces tyrosine phosphorylation of CEACAM20 and thereby contributes to suppress the intestinal immune response CEACAM20 (By similarity).

Cellular Location

Cell projection, microvillus membrane {ECO:0000250|UniProtKB:E9Q0N2}; Single-pass type I membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:E9Q0N2}; Single-pass type I membrane protein. Cytoplasm. Note=Colocalizes with CEACAM20 at the apical brush border of intestinal cells {ECO:0000250|UniProtKB:E9Q0N2}

Tissue Location

Expressed at high levels in the brain, spleen and liver and at lower levels in the heart and stomach. Expressed in pancreatic and colorectal cancer cells, but not in normal pancreas or colon. Expression in hepatocellular carcinoma is related to the differentiation status of the tumor and expression is inversely related to tumor aggressiveness.

PTPRH Antibody (internal region) - 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](#)

PTPRH Antibody (internal region) - Images**PTPRH Antibody (internal region) - References**

Downregulation of stomach cancer-associated protein tyrosine phosphatase-1 (SAP-1) in advanced human hepatocellular carcinoma. Nagano H, Noguchi T, Inagaki K, Yoon S, Matozaki T, Itoh H, Kasuga M, Hayashi Y. Oncogene. 2003 Jul 24;22(30):4656-63. PMID: 12879010