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# PTPRH Antibody (interal region)

**Peptide-affinity purified goat antibody**
**Catalog # AF2718a**

## Specification

### PTPRH Antibody (interal region) - Product Information

| | |
|---|---|
| Application | **E** |
| Primary Accession | Q9HD43 |
| Other Accession | NP_002833.2, 5794 |
| Predicted | **Human** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **0.5 mg/ml** |
| Isotype | **IgG** |
| Calculated MW | **122353** |

### PTPRH Antibody (interal 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

**Dilution**
E~~N/A

**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 (interal region) is for research use only and not for use in diagnostic or therapeutic procedures.

### PTPRH Antibody (interal 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 (interal 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 Cytomety
- Cell Culture

## PTPRH Antibody (interal region) - Images

## PTPRH Antibody (interal 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