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SAP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57497

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q9HD43
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	122353

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	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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