

VAV1 Polyclonal Antibody

Catalog No: YT5041

Reactivity: Human; Mouse; Rat

Applications: WB;IF;ELISA

Target: VAV1

Fields: >>Rap1 signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling

pathway;>>Focal adhesion;>>Natural killer cell mediated cytotoxicity;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>Fc epsilon RI

signaling pathway;>>Fc gamma R-mediated phagocytosis;>>Leukocyte transendothelial migration;>>Regulation of actin cytoskeleton;>>Yersinia

infection;>>Proteoglycans in cancer;>>Lipid and atherosclerosis

Gene Name: VAV1

Protein Name: Proto-oncogene vav

P15498

P27870

Human Gene Id: 7409

Human Swiss Prot

No:

Mouse Gene ld: 22324

Mouse Swiss Prot

No:

Rat Swiss Prot No: P54100

Immunogen: The antiserum was produced against synthesized peptide derived from human

VAV1. AA range:131-180

Specificity: VAV1 Polyclonal Antibody detects endogenous levels of VAV1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

1/3



Dilution : WB 1:500 - 1:2000. ELISA: 1:5000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 98kD

Cell Pathway: Chemokine;Focal adhesion;Natural killer cell mediated

cytotoxicity;T_Cell_Receptor;B_Cell_Antigen;Fc epsilon RI;Fc gamma R-mediated phagocytosis;Leukocyte transendothelial migration;Regulates Actin an

Background: This gene is a member of the VAV gene family. The VAV proteins are guanine

nucleotide exchange factors (GEFs) for Rho family GTPases that activate pathways leading to actin cytoskeletal rearrangements and transcriptional

alterations. The encoded protein is important in hematopoiesis, playing a role in T-

cell and B-cell development and activation. The encoded protein has been identified as the specific binding partner of Nef proteins from HIV-1. Coexpression

and binding of these partners initiates profound morphological changes,

cytoskeletal rearrangements and the JNK/SAPK signaling cascade, leading to increased levels of viral transcription and replication. Alternatively spliced

transcript variants encoding multiple isoforms have been observed for this gene.

[provided by RefSeq, Apr 2012],

Function: domain: The DH domain is involved in interaction with CCPG1., function: Couples

tyrosine kinase signals with the activation of the Rho/Rac GTPases, thus leading to cell differentiation and/or proliferation.,miscellaneous:'Vav' stands for the sixth

letter of the Hebrew alphabet., PTM: Phosphorylated on tyrosine

residues., similarity: Contains 1 CH (calponin-homology)

domain., similarity: Contains 1 DH (DBL-homology) domain., similarity: Contains 1

PH domain., similarity: Contains 1 phorbol-ester/DAG-type zinc

finger., similarity: Contains 1 SH2 domain., similarity: Contains 2 SH3

domains., subunit: May interact with CCPG1 (By similarity). Interacts with APS, DOCK2, GRB2, GRB3, DOCK2, SLA and ZNF655/VIK. Interacts with SIAH2; without leading to its degradation. Associates with BLNK, PLCG1, GRB2 and NCK1 in a B-cell antigen receptor-dependent fashion. Interacts with CBLB; which

inhibits tyrosine phosphorylati

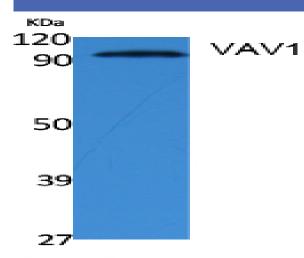
Subcellular Location:

intracellular, cytosol, plasma membrane, cell-cell junction,

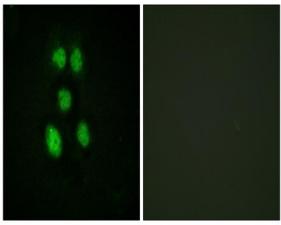
Expression: Widely expressed in hematopoietic cells but not in other cell types.



Products Images



Western Blot analysis of extracts from NIH-3T3 cells, using VAV1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of HeLa cells, using VAV1 Antibody. The picture on the right is blocked with the synthesized peptide.