

## **Vav1 Polyclonal Antibody**

Catalog No: YT4863

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;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:141-190

**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

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**Dilution:** WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

**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.

**Sort :** 24094

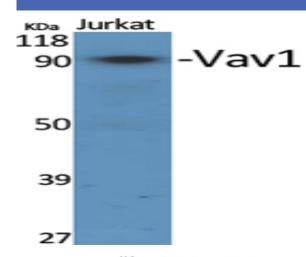
2/3



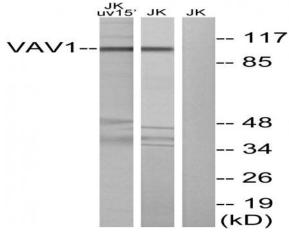
**Host:** Rabbit

Modifications: Unmodified

## **Products Images**



Western Blot analysis of various cells using Vav1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from Jurkat cells, using VAV1 Antibody. The lane on the right is blocked with the synthesized peptide.