

## Vav1 (phospho Tyr174) Polyclonal Antibody

<b>Catalog No :</b>	YP0274
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	VAV1
<b>Fields :</b>	>>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
<b>Gene Name :</b>	VAV1
<b>Protein Name :</b>	Proto-oncogene vav
<b>Human Gene Id :</b>	7409
<b>Human Swiss Prot No :</b>	P15498
<b>Mouse Gene Id :</b>	22324
<b>Mouse Swiss Prot No :</b>	P27870
<b>Rat Swiss Prot No :</b>	P54100
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human VAV1 around the phosphorylation site of Tyr174. AA range:141-190
<b>Specificity :</b>	Phospho-Vav1 (Y174) Polyclonal Antibody detects endogenous levels of Vav1 protein only when phosphorylated at Y174.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** WB 1:500 - 1:2000. ELISA: 1:10000. 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

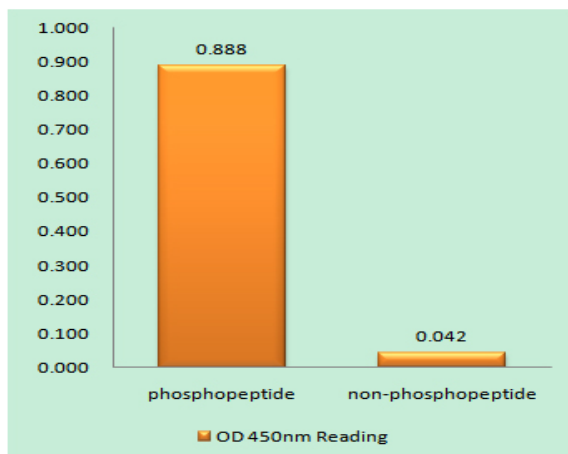
**Background :** This gene is a member of the VAV gene family. The VAV proteins are guanine nucleotide exchange factors (GEFs) for Rho family GTPases that activate pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. The encoded protein is important in hematopoiesis, 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

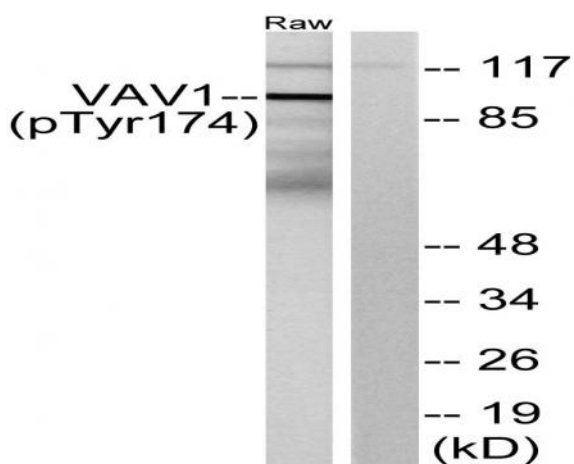
**Subcellular Location :** intracellular,cytosol,plasma membrane,cell-cell junction,

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

## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using VAV1 (Phospho-Tyr174) Antibody



Western blot analysis of lysates from RAW264.7 cells, using VAV1 (Phospho-Tyr174) Antibody. The lane on the right is blocked with the phospho peptide.