

**Vav3 (phospho Tyr173) Polyclonal Antibody**

<b>Catalog No :</b>	YP0839
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Vav3
<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>	VAV3
<b>Protein Name :</b>	Guanine nucleotide exchange factor VAV3
<b>Human Gene Id :</b>	10451
<b>Human Swiss Prot No :</b>	Q9UKW4
<b>Mouse Gene Id :</b>	57257
<b>Mouse Swiss Prot No :</b>	Q9R0C8
<b>Immunogen :</b>	Synthesized phospho-peptide around the phosphorylation site of human Vav3 (phospho Tyr173)
<b>Specificity :</b>	Phospho-Vav3 (Y173) Polyclonal Antibody detects endogenous levels of Vav3 protein only when phosphorylated at Y173.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Observed Band :** 100kD

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**Cell Pathway :** Regulation of Actin Dynamics; AMPK

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**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. This gene product acts as a GEF preferentially for RhoG, RhoA, and to a lesser extent, RAC1, and it associates maximally with the nucleotide-free states of these GTPases. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008],

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**Function :** function:Exchange factor for GTP-binding proteins RhoA, RhoG and, to a lesser extent, Rac1. Binds physically to the nucleotide-free states of those GTPases.,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:Interacts with the PH domain of APS.,

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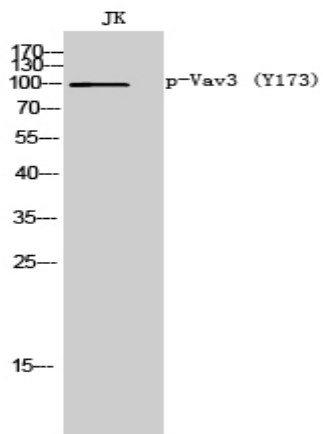
**Subcellular Location :** intracellular,cytosol,plasma membrane,extracellular exosome,

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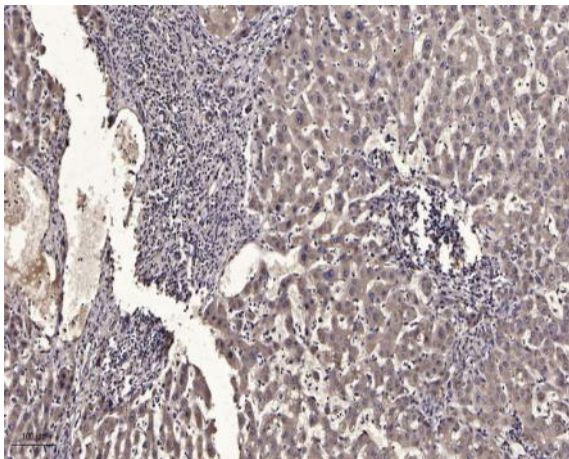
**Expression :** Isoform 1 and isoform 3 are widely expressed; both are expressed at very low levels in skeletal muscle. In keratinocytes, isoform 1 is less abundant than isoform 3. Isoform 3 is detected at very low levels, if any, in adrenal gland, bone marrow, spleen, fetal brain and spinal chord; in these tissues, isoform 1 is readily detectable.

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## Products Images



Western Blot analysis of JK cells using Phospho-Vav3 (Y173) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).