

**Anti-VAV3 (pY173) Antibody**  
**Rabbit polyclonal antibody to VAV3 (pY173)**  
**Catalog # AP61284****Specification**

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**Anti-VAV3 (pY173) Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O9UKW4</a>
Other Accession	<a href="#">O9R0C8</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97776

**Anti-VAV3 (pY173) Antibody - Additional Information****Gene ID** 10451**Other Names**

Guanine nucleotide exchange factor VAV3; VAV-3

**Target/Specificity**

Recognizes endogenous levels of VAV3 (pY173) protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-VAV3 (pY173) Antibody - Protein Information****Name** VAV3**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. Plays an important role in angiogenesis. Its recruitment by phosphorylated EphA2 is critical for EPHA2-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly (By similarity). May be important for integrin-mediated signaling, at least in some cell types. In osteoclasts, along with SYK tyrosine kinase, required for signaling through integrin  $\alpha$ -v/ $\beta$ -1 (ITAGV-ITGB1), a crucial event for osteoclast proper cytoskeleton organization and function. This signaling pathway involves RAC1, but not RHO, activation. Necessary for proper wound healing. In the course of wound healing,

required for the phagocytotic cup formation preceding macrophage phagocytosis of apoptotic neutrophils. Responsible for integrin beta-2 (ITGB2)-mediated macrophage adhesion and, to a lesser extent, contributes to beta-3 (ITGB3)-mediated adhesion. Does not affect integrin beta-1 (ITGB1)-mediated adhesion (By similarity).

#### Tissue Location

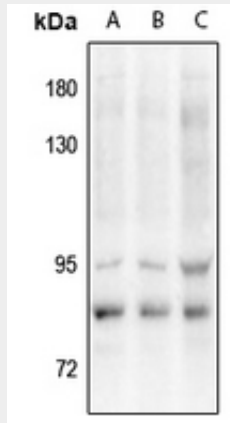
Isoform 1 and isoform 3 are widely expressed; both are expressed at very low levels in skeletal muscle. In keratinocytes, isoform 1 is less abundant than isoform 3. Isoform 3 is detected at very low levels, if any, in adrenal gland, bone marrow, spleen, fetal brain and spinal cord; in these tissues,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

#### Anti-VAV3 (pY173) Antibody - Protocols

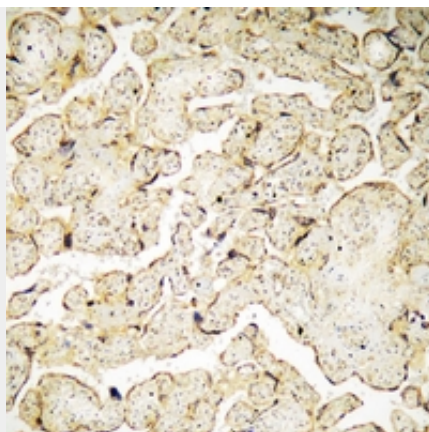
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-VAV3 (pY173) Antibody - Images



Western blot analysis of VAV3 (pY173) expression in SGC7901 (A), H1792 (B), HCT116 (C) whole cell lysates.



Immunohistochemical analysis of VAV3 (pY173) staining in human placenta formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-VAV3 (pY173) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human VAV3 (pY173). The exact sequence is proprietary.