

Anti-VAV3 (pY173) Antibody

Rabbit polyclonal antibody to VAV3 (pY173)

Catalog # AP61284

Product Information

Application	WB, IHC
Primary Accession	Q9UKW4
Other Accession	Q9R0C8
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97776

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

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 EFNA1-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).

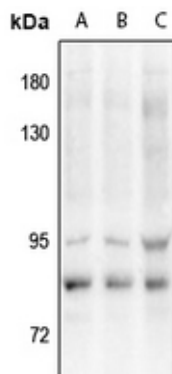
Tissue Location

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.

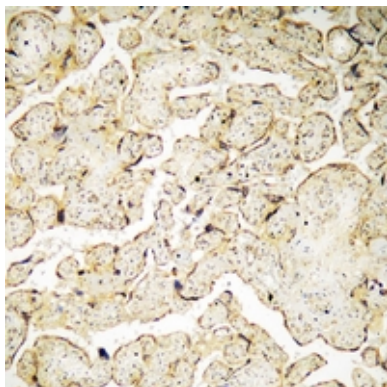
Background

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

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.

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