VAV3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VAV3, Polyclonal Antibody
Full Product Name	VAV3 Antibody
Product Gene Name	anti-VAV3 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Specificity	The antibody detects endogenous levels of total VAV3 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	97,776 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (108113782..108507545, complement). Location: 1p13.3
OMIM	605541
3D Structure	ModBase 3D Structure for Q9UKW4
Immunogen	Synthetic peptide of human VAV3
Product Categories/Family for anti-VAV3 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VAV3 antibody	Immunohistochemistry (IHC)
Application Notes for anti-VAV3 antibody	IHC: 1: 20-100
Related Product Information for anti-VAV3 antibody	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
Other Notes	Small volumes of anti-VAV3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VAV3 purchase	MBS8594232 is an antibody targeting VAV3. Also known as VAV3 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VAV3. It may not necessarily be applicable to this product.

NCBI GI #	120432042

NCBI GeneID	10451
NCBI Accession #	NP_001073343.1
UniProt Primary Accession #	Q9UKW4
UniProt Secondary Accession #	O60498; O95230; Q9Y5X8; B1AMM0; B1APV5; B4E232; B7ZLR1; E9PQ97
UniProt Related Accession #	Q9UKW4
GenBank Nucleotide #	NM_001079874.1
NCBI Official Full Name	guanine nucleotide exchange factor VAV3 isoform 2
NCBI Official Synonym Full Names	vav 3 guanine nucleotide exchange factor
NCBI Official Symbol	VAV3
UniProt Protein Name	Guanine nucleotide exchange factor VAV3
Protein Family	Guanine nucleotide exchange factor
UniProt Gene Name	VAV3
UniProt Synonym Gene Names	VAV-3
UniProt Entry Name	VAV3_HUMAN
NCBI Protein Information	guanine nucleotide exchange factor VAV3; VAV-3; vav 3 oncogene
NCBI Summary for VAV3	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]

UniProt Comments for VAV3	VAV3: a guanine nucleotide exchange factor (GEF) that activates 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 activated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. 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. Interacts with the PH domain of APS. Interacts (via SH2 domains) with the phosphorylated form of EPHA2. Interacts with ROS1; constitutive interaction that mediates VAV3 phosphorylation. Down-regulated by EGF and TGF-beta. Four isoforms of the human protein are produced by alternative promoter. 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. Protein type: Motility/polarity/chemotaxis; Nuclear receptor co-regulator; Adaptor/scaffold; Actin-binding; GEFs, Rac/Rho; GEFs Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: plasma membrane; cytosol Molecular Function: protein binding; SH3/SH2 adaptor activity; metal ion binding; Rac guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; GTPase activator activity; epidermal growth factor receptor binding Biological Process: response to drug; lamellipodium biogenesis; integrin-mediated signaling pathway; platelet activation; neutrophil chemotaxis; axon guidance; positive regulation of cell adhesion; positive regulation of signal transduction; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; positive regulation of phosphoinositide 3-kinase activity; vesicle fusion; regulation of small GTPase mediated signal transduction; B cell receptor signaling pathway; small GTPase mediated signal transduction; ephrin receptor signaling pathway; positive regulation of B cell proliferation; innate immune response; angiogenesis; blood coagulation; vascular endothelial growth factor receptor signaling pathway; response to DNA damage stimulus
Research Articles on VAV3	**1.** analysis of a novel interaction between the co-chaperone Cdc37 and Rho GTPase exchange factor Vav3 promotes androgen receptor activity and prostate cancer growth
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