

Rabbit VAV1 Polyclonal Antibody | anti-VAV1 antibody

Phospho-VAV1 (Tyr174) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321534	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

VAV1; Polyclonal Antibody; Phospho-VAV1 (Tyr174) Antibody; Oncogene vav; p95Vav; Proto-oncogene vav; Protooncogene vav; VAV 1; VAV 1 oncogene; VAV; Vav proto oncogene; VAV_HUMAN; anti-VAV1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-VAV1 (Tyr174) antibody detects endogenous levels of VAV1 only when phosphorylated at Tyrosine 174
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	813
Applicable Applications for anti-VAV1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human VAV1 around the phosphorylation site of Tyrosine 174
Subcellular Location	Cytoplasmic and Plasma Membrane VAV1, Cytoplasm-VAV2 & VAV3
Tissue Specificity	Widely expressed in hematopoietic cells but not in other cell types.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (91%), Horse (100%), Sheep (91%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Tyr174
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Phospho-VAV1 (Tyr174) expression in various lysates



IF (Immunofluorescence)
AAA321534 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohiostchemistry)
AAA321534 at 1/200 staining human lymph node tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of VAV1 phosphorylation expression in K562 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-VAV1 antibody	Description: The protein encoded by this proto-oncogene is a member of the Dbl family of guanine nucleotide exchange factors (GEF) for the Rho family of GTP binding proteins. Function: Couples tyrosine kinase signals with the activation of the Rho/Rac GTPases, thus leading to cell differentiation and/or proliferation. Subunit Structure: Interacts with SHB (PubMed:12084069). Interacts with APS, GRB2, GRB3, DOCK2, SLA, TEC and ZNF655/VIK (PubMed:12393632, PubMed:12400014, PubMed:15558030). Interacts with SIAH2; without leading to its degradation (PubMed:10207103). Associates with BLNK, PLCG1, GRB2 and NCK1 in a B-cell antigen receptor-dependent fashion (PubMed:9697839). Interacts with CBLB; which inhibits tyrosine phosphorylation and down-regulates activity (PubMed:9399639). May interact with CCPG1. Interacts with CLNK. Interacts with THEMIS2 (By similarity). Interacts with NEK3 and this interaction is prolactin-dependent (PubMed:15618286). Interacts with ITK (PubMed:15661896). Interacts with PTK2B/PYK2 (By similarity). Interacts with HCK. Interacts with PTK2B/PYK2 (PubMed:19207108). Interacts (via SH2 domain) with SYK (PubMed:8986718). Interacts with ANKRD54. Interacts with CD6 (By similarity). Post-translational Modifications: Phosphorylated on tyrosine residues by HCK in response to IFNG and bacterial lipopolysaccharide (LPS) (By similarity). Phosphorylated by FYN. Similarity: The DH domain is involved in interaction with CCPG1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	384551649
NCBI GeneID	7409
NCBI Accession #	NP_001245136.1
NCBI GenBank Nucleotide #	NM_001258207.1
UniProt Accession #	P15498; Q15860; B4DVK9; M0QXX6
Molecular Weight	Observed: 95 kDa Predicted: 99 kDa
NCBI Official Full Name	proto-oncogene vav isoform 3
NCBI Official Synonym Full Names	vav guanine nucleotide exchange factor 1
NCBI Official Symbol	VAV1
NCBI Official Synonym Symbols	VAV

NCBI Protein Information	proto-oncogene vav
UniProt Protein Name	Proto-oncogene vav
UniProt Gene Name	VAV1
UniProt Synonym Gene Names	VAV

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vav1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321534>