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VAV1 Recombinant Rabbit mAb

Catalog # AP100298

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P15498
Other Accession	P15498
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	98314
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 CH (calponin-homology) domain. Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 SH2 domain. Contains 2 SH3 domains.
SUBUNIT	May interact with CCPG1. Interacts with APS, DOCK2, GRB2, GRB3, DOCK2, SLA, TEC and ZNF655/VIK. Interacts with SIAH2; without leading to its degradation. Associates with BLNK, PLCG1, GRB2 and NCK1 in a B-cell antigen receptor-dependent fashion. Interacts with CBLB; which inhibits tyrosine phosphorylation and down-regulates activity. Interacts with SHB and CLNK. Interacts with THEMIS2. Interacts with HCK. Interacts with NEK3 and this interaction is prolactin-dependent. Interacts with ITK. Interacts with PTK2B/PYK2. Interacts (via SH2 domain) with SYK. Interacts with ANKRD54.
Post-translational modifications	Phosphorylated on tyrosine residues by HCK in response to IFNG and bacterial lipopolysaccharide (LPS). Phosphorylated by FYN.
Background Descriptions	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. The encoded protein is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. The encoded protein has been identified as the specific binding partner of Nef proteins from HIV-1. Coexpression and binding of these partners initiates profound morphological changes, cytoskeletal rearrangements and the JNK/SAPK signaling cascade, leading to increased levels of viral transcription and replication. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2012],

Additional Information

Gene ID	7409
Other Names	VAV; vav-T; VAV_HUMAN; VAV1; VAV_MOUSE; p95vav; VAV_RAT; p95; vav guanine nucleotide exchange factor 1; vav 1 oncogene; vav 1 guanine nucleotide exchange factor; Proto-oncogene vav

Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	VAV1
Synonyms	VAV
Function	Couples tyrosine kinase signals with the activation of the Rho/Rac GTPases, thus leading to cell differentiation and/or proliferation.
Tissue Location	Widely expressed in hematopoietic cells but not in other cell types

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