

Recombinant Full Length Human VAV1 Protein, C-Flag-tagged

Cat. No. VAV1-919HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human VAV1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	98.1 kDa
AA Sequence	MELWRQCTHWLIQCRVLPSPSHRVTDGAQVCELAQALRDGVLLCQLLNLLPHAIN LREVNLRPQMSQFL CLKNIRTFLLSTCCEKFGLKRSELF EAFDLFDVQDFGKVIYTL LSWTPIAQNRGIMPFPTEEEESVGDED IYSGLSQDQIDDTVEEDEDLYDCVENEEAEGD

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EIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYT DTLGSIQQHFLKPLQRFL
 KPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVY GRYCSQV
 ESASKHLDRVAAAREDVQMKLEECSSQRANNGRFTLRDLLMVPQMQRVLKYHLLQEL
 VKHTQEA MEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAH
 YGRPKIDGELKITSVERRSKM DRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRD
 DSSGDRDNKKWSHMFLIEDQGAQGYELFFKTRE LKKKWMEQFEMAISNIYPENAT
 ANGHDFQMFSFEETTSCACQMLLRGTFYQGYRCHRCRASAHECLGR VPPCGR
 HGQDFPGTMKKDKLHRRRAQDKKRNELGLPKMEVFQEYYGLPPPPGAIGPFLRLNP
 GDIVELTKA EAEQNWWEGRNTSTNEIGWFPCNRVKPYVHGPPQDLSVHLWYAGP
 MERAGAESILANRSDGTFLVRQVRK DAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKA
 FRGLTELVEFYQQNSLKDCFKSLDTTLQFPFKEPEK RTISRPAVGSTKYFGTAKARY
 DFCARDRSELSLKEGDIKILNKKGQQGWWRGEIYGRVGVFPANYVEED
 YSEYCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	B cell receptor signaling pathway, Chemokine signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte

transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, T cell receptor signaling pathway

Full Length Full L.

GENE INFORMATION

Gene Name VAV1 vav guanine nucleotide exchange factor 1 [Homo sapiens (human)]

Official Symbol VAV1

Synonyms VAV

Gene ID 7409

mRNA Refseq NM_005428.4

Protein Refseq NP_005419.2

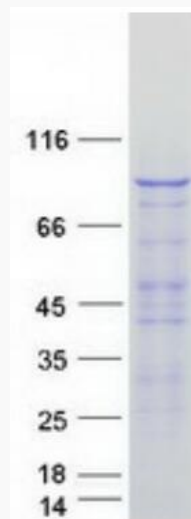
MIM 164875

UniProt ID P15498

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Coomassie blue staining of purified VAV1 protein.

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