

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

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

SPECIFICATION

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|-------------------------|---|
| 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 | <p>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.</p> |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 98.1 kDa |
| AA Sequence | <p>MELWRQCTHWLIQCRVLPSPHRVTWDGAQVCELAQALRDGVLLCQLLNLLPHAIN LREVNLRPQMSQFL CLKNIRTFLLSTCCEKFGFLKRSELF EAFDLFDVQDFGKVIYTLISA LSWTPIAQNRGIMPFPTEEEESVGDED IYSGLSQIDDTVEEDEDLYDCVENEEAEGD</p> |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

EIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYT DTLGSIQQHFLKPLQRFL
 KPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVY GRYCSQV
 ESASKHLDRVAAAREDVQMKLEECSSQRANNGRFTLRDLLMVPMQRVLYHLLQEL
 VKHTQEA MEKENLRLALDAMRDLAQCNEVVRDNETLRQITNFQLSIENLDQSLAH
 YGRP KIDGELKITSVERRSKM DRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRD
 DSSGDRDNKKWSHMFLIEDQGAQGYELFFKTRE LKKKWMEQFEMAISNIYPENAT
 ANGHDFQMFSFEETTSCACQMLLRGTFYQGYRCHRCRASAHKECLGR VPPCGR
 HGQDFPGTMMKDKLHRRRAQDKKRNELGLPKMEVFQEYYGLPPPPGAIGPFLRLNP
 GDIVELTKA EAEQNWWEGRNTSTNEIGWFPCNRVKPYVHGPPQDLSVHLWYAGP
 MERAGAESILANRSDGTFLVRQRVK DAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKA
 FRGLTELVFQYQQNSLKDCFKSLDTTLQFPFKEPEK RTISRPAVGSTKYFGTAKARY
 DFCARDRSELSLKEGDIKILNKKGQQGWWRGEIYGRVGVFPANYVEED
 YSEYCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|-------------------------|--|
| 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 |

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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

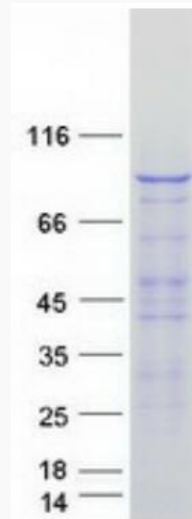
MIM 164875

UniProt ID P15498

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Coomassie blue staining of purified VAV1 protein.

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