

Product datasheet for **TP324806**

VAV1 (NM_005428) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human vav 1 guanine nucleotide exchange factor (VAV1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC224806 representing NM_005428 Red =Cloning site Green =Tags(s)

MELWRQCTHWLIQCRVLPSSHRTWDGAQVCELAQALRDGVLLCQLLNLLPHAINLREVNLRPQMSQFL
CLKNIRTLSTCCEKFGFKRSELEAFDLFDVQDFGKVIYTLALSWTPIAQNRGIMPFPTEESVGD
IYGLSDQIDDTVEEDEDLYDCVENEEAEGDEIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYT
DTLGSIQQHFLKPLQRFLKPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVY
GRYCSQVESASKHLDRVAAAAREDVQMKLEECQRANNGRFTLRDLLMVPMPQRVLKYHLLLQELVKHTQEA
MEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAHYGRPKIDGELKITSVERRSKM
DRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDDSSGDRDNKKWSHMFLLIEDQGAQGYELFFKTR
LKKKWMEQFEMAISNIYPENATANGHDFQMFSEETTCKACQMLLRGTFYQGYRCHRCRASAHKECLGR
VPPCGRHGQDFPGTMKKDKLHRAQDKKRNELGLPKMEVFQYGLPPPPGAIGPFLRLNPGDIVELTKA
EAEQNWWEGRNTSTNEIGWPCNRVKPYVHGPPQDLSVHLWYAGPMERAGAESILANRSDGTFLVRQV
DAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKAFRGLTELVEFYQQNSLKDCFKSLDITLQFPFKEPEK
RTISRPAVGSTKYFGTAKARYDFCARDSELSLKEGDIKILNKKGQQGWWRGEIYGRVGFWPANYVEED
YSEYC

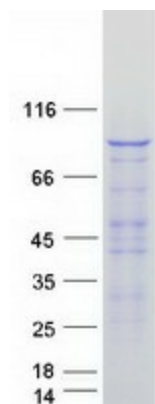
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	98.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005419
Locus ID:	7409
UniProt ID:	P15498 , Q96D37 , B2R8B5
RefSeq Size:	2888
Cytogenetics:	19p13.3
RefSeq ORF:	2535
Synonyms:	VAV
Summary:	<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. [provided by RefSeq, Apr 2012]</p>
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

Product images:

Coomassie blue staining of purified VAV1 protein (Cat# TP324806). The protein was produced from HEK293T cells transfected with VAV1 cDNA clone (Cat# [RC224806]) using MegaTran 2.0 (Cat# [TT210002]).