

## Recombinant Human VAV1, GST-tagged

**Cat. No.** VAV1-163H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human VAV1 (73-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	73-end a.a.
<b>Description</b>	VAV1 is a member of the VAV gene family which are guanine nucleotide exchange factors (GEFs) for Rho family GTPases. VAV1 activates pathways leading to actin cytoskeletal rearrangements and transcriptional alterations. VAV1 is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. VAV1 has been identified as the specific binding partner of Nef proteins from HIV-1. Co-expression and binding of Nef with VAV1 initiates profound morphological changes, cytoskeletal rearrangements and the JNK/SAPK signaling cascade, leading to increased levels of viral transcription and replication. VAV1 proto-oncogene participates in the signaling processes that mediate the antigen-induced activation of B lymphocytes.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~120 kDa

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<b>Purity</b>	>70% by densitometry
<b>Applications</b>	Western Blot
<b>Storage</b>	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µl

## GENE INFORMATION

<b>Gene Name</b>	VAV1 vav 1 guanine nucleotide exchange factor [ Homo sapiens ]
<b>Official Symbol</b>	VAV1
<b>Synonyms</b>	VAV1; vav 1 guanine nucleotide exchange factor; VAV, vav 1 oncogene; proto-oncogene vav; vav 1 oncogene; VAV;
<b>Gene ID</b>	7409
<b>mRNA Refseq</b>	NM_001258206
<b>Protein Refseq</b>	NP_001245135
<b>MIM</b>	164875
<b>UniProt ID</b>	P15498
<b>Chromosome Location</b>	19p13.2

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**Pathway**

Adaptive Immune System, organism-specific biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent Vav1 pathway, organism-specific biosystem;

**Function**

Rac guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; metal ion binding; protein binding; sequence-specific DNA binding transcription factor activity;

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