Recombinant Human VAV1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human VAV1 (73-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	73-end a.a.
Description	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.
Form	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.
Molecular Mass	~120 kDa

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Purity	>70% by densitometry
Applications	Western Blot
Storage	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.
Concentration	0.1 μg/μl

GENE INFORMATION

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