

Recombinant Mouse Vav3 Protein, Myc/DDK-tagged

Cat. No. Vav3-6906M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length vav 3 oncogene (Vav3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Exchange factor for GTP-binding proteins RhoA, RhoG and, to a lesser extent, Rac1. Binds physically to the nucleotide-free states of those GTPases. Plays an important role in angiogenesis. Its recruitment by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. May be important for integrin-mediated signaling, at least in some cell types. In osteoclasts, along with SYK tyrosine kinase, required for signaling through integrin alpha-v/beta-1 (ITAGV-ITGB1), a crucial event for osteoclast proper cytoskeleton organization and function. This signaling pathway involves RAC1, but not RHO, activation. Necessary for proper wound healing. In the course of wound healing, required for the phagocytotic cup formation preceding macrophage phagocytosis of apoptotic neutrophils. Responsible for integrin beta-2-mediated macrophage adhesion and, to a lesser extent, contributes to beta-3-mediated adhesion. Does not affect integrin beta-1-mediated adhesion.
Molecular Mass	33.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Vav3 vav 3 oncogene [<i>Mus musculus</i> (house mouse)]
Official Symbol	Vav3
Synonyms	VAV3; vav 3 oncogene; guanine nucleotide exchange factor VAV3; VAV-3; Idd18.1; AA986410; A530094I06Rik; MGC27838
Gene ID	57257
mRNA Refseq	NM_146139
Protein Refseq	NP_666251
UniProt ID	Q9R0C8

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