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## **VAV Family Gene**

National Cancer Institute

## Source

National Cancer Institute. <u>VAV Family Gene</u>. NCI Thesaurus. Code C20408.

VAV Family Genes (VAV1, VAV2, and VAV3) encode VAV proteins that respond to similar cell surface receptor tyrosine kinases as GEFs for Rho/Rac family GT Pases, which activate pathways leading to actin cytoskeletal rearrangements, transcriptional alterations, cell differentiation, and/or cell proliferation. VAV proteins contain CH, DH, PH, SH2, SH3, and zinc-dependent phorbol-ester and DAG binding domains. VAV1 is expressed exclusively in hematopoietic cells, while VAV2 and VAV3 are more broadly expressed. (NCI)

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