10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

VAV1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1740a

Specification

VAV1 Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	P15498
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**98.3kDa KDa**

Description
The protein encoded by this proto-oncogene is a member of the Dbl family of guanine nucleotide exchange factors (GEF) for the Rho family of GTP binding proteins. The protein is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. This particular GEF 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.

Immunogen
Purified recombinant fragment of human VAV1 (AA: 121-324) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

VAV1 Antibody - Additional Information

Gene ID 7409

Other Names
Proto-oncogene vav, VAV1, VAV

Dilution
E~~1/10000
WB~~1/250
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
VAV1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

VAV1 Antibody - Protein Information

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Name VAV1

Synonyms VAV

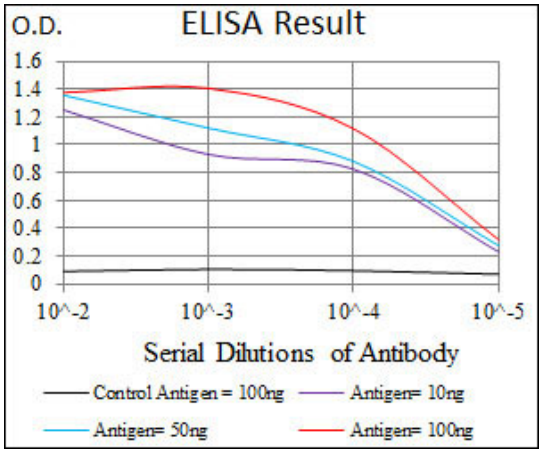
Function
Couples tyrosine kinase signals with the activation of the Rho/Rac GTPases, thus leading to cell differentiation and/or proliferation.

Tissue Location
Widely expressed in hematopoietic cells but not in other cell types

VAV1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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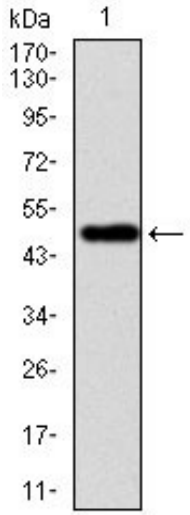

Figure 1: Western blot analysis using VAV1 mAb against human VAV1 recombinant protein. (Expected MW is 49.3 kDa)

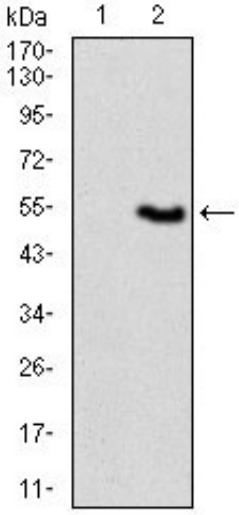

Figure 2: Western blot analysis using VAV1 mAb against HEK293 (1) and VAV1 (AA: 121-324)-hIgGFc transfected HEK293 (2) cell lysate.

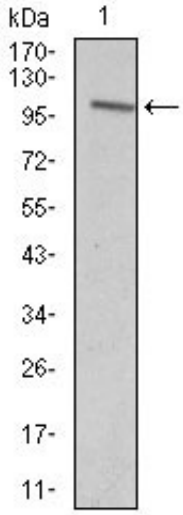

Figure 3: Western blot analysis using VAV1 mouse mAb against Jurkat (1) cell lysate.

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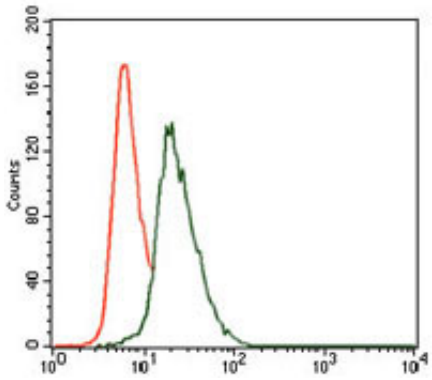

Figure 4: Flow cytometric analysis of HeLa cells using VAV1 mouse mAb (green) and negative control (red).

VAV1 Antibody - References

1.Acta Pharmacol Sin. 2011 Jan;32(1):99-107.2.Cell Tissue Res. 2011 Jul;345(1):163-75.