

## VAV1 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant VAV1.

Catalog # AT4503a

### Specification

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#### VAV1 Antibody (monoclonal) (M04) - Product Information

Application	IF, WB, E
Primary Accession	<a href="#">P15498</a>
Other Accession	<a href="#">BC013361</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	98314

#### VAV1 Antibody (monoclonal) (M04) - Additional Information

**Gene ID** 7409

#### Other Names

Proto-oncogene vav, VAV1, VAV

#### Target/Specificity

VAV1 (AAH13361, 681 a.a. ~ 790 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### Dilution

WB~~1:500~1000

#### Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### Precautions

VAV1 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

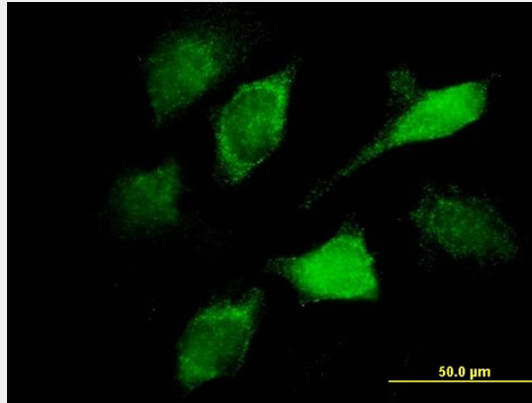
#### VAV1 Antibody (monoclonal) (M04) - Protocols

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

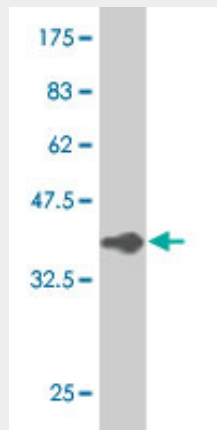
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

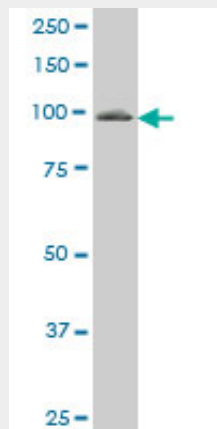
### VAV1 Antibody (monoclonal) (M04) - Images



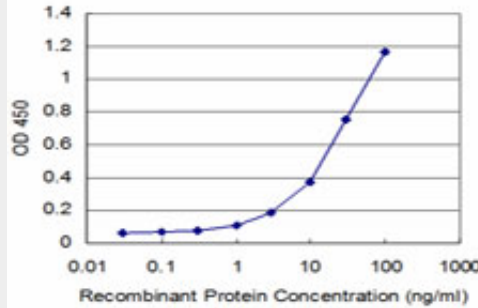
Immunofluorescence of monoclonal antibody to VAV1 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



VAV1 monoclonal antibody (M04), clone 3A11 Western Blot analysis of VAV1 expression in Jurkat ( (Cat # AT4503a )



Detection limit for recombinant GST tagged VAV1 is approximately 1ng/ml as a capture antibody.

### **VAV1 Antibody (monoclonal) (M04) - Background**

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.

### **VAV1 Antibody (monoclonal) (M04) - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086. Cooperative interactions at the SLP-76 complex are critical for actin polymerization. Barda-Saad M, et al. *EMBO J*, 2010 Jul 21. PMID 20562827. New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. *Genes Immun*, 2010 Apr. PMID 20237496. Synergistic signals for natural cytotoxicity are required to overcome inhibition by c-Cbl ubiquitin ligase. Kim HS, et al. *Immunity*, 2010 Feb 26. PMID 20189481. Structural and energetic mechanisms of cooperative autoinhibition and activation of Vav1. Yu B, et al. *Cell*, 2010 Jan 22. PMID 20141838.