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VAV1 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant VAV1.
Catalog # AT4503a

Specification

VAV1 Antibody (monoclonal) (M04) - Product Information

Application	**IF, WB, E**
Primary Accession	P15498
Other Accession	BC013361
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

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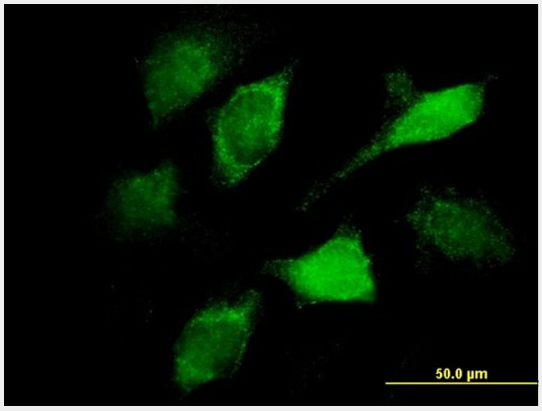
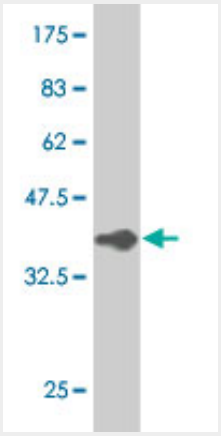
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

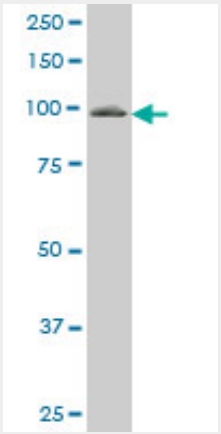
VAV1 Antibody (monoclonal) (M04) - Images



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)

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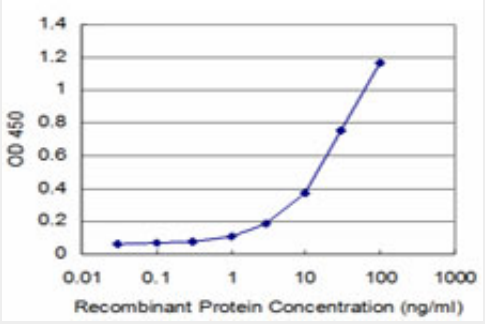

Detection limit for recombinant GST tagged VAV1 is approximately 1ng/ml as a capture antibody.

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 Thiazolinedinedione-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.