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VAV1 Antibody (monoclonal) (M04)

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

Product Information

Application	WB, IF, E
Primary Accession	P15498
Other Accession	BC013361
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3A11
Calculated MW	98314

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 IF~~1:50~200 E~~N/A
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.

Background

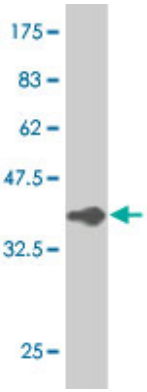
The protein encoded by this proto-oncogene is a member of the Dbl family of guanine nucleotide exchange factors (GEF) for the Rho family of GTP binding proteins. The protein is important in hematopoiesis, playing a role in T-cell and B-cell development and activation. This particular GEF has been identified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

References

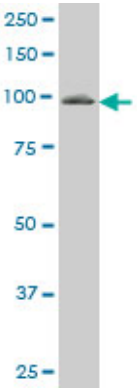
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes

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.

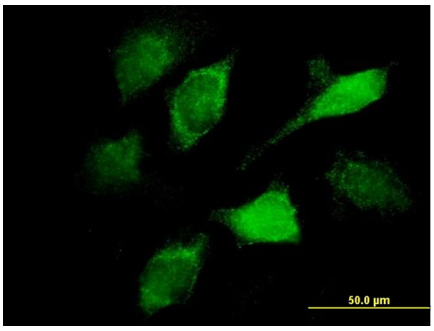
Images



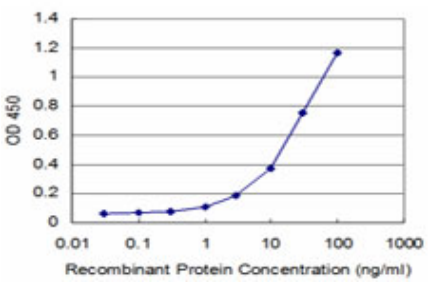
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.