

**ARHGEF1 Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a partial recombinant ARHGEF1.****Catalog # AT1184a****Specification**

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**ARHGEF1 Antibody (monoclonal) (M02) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O92888</a>
Other Accession	<a href="#">BC034013</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	102435

**ARHGEF1 Antibody (monoclonal) (M02) - Additional Information****Gene ID** 9138**Other Names**

Rho guanine nucleotide exchange factor 1, 115 kDa guanine nucleotide exchange factor, p115-RhoGEF, p115RhoGEF, Sub15, ARHGEF1

**Target/Specificity**

ARHGEF1 (AAH34013.2, 830 a.a. ~ 927 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

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**

ARHGEF1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

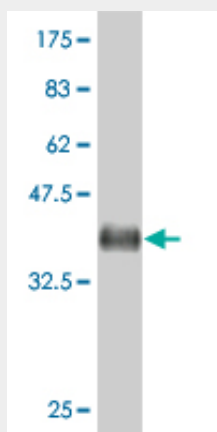
**ARHGEF1 Antibody (monoclonal) (M02) - Protocols**

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

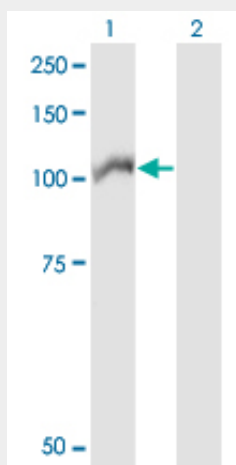
- [Western Blot](#)
- [Blocking Peptides](#)

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

#### ARHGEF1 Antibody (monoclonal) (M02) - Images



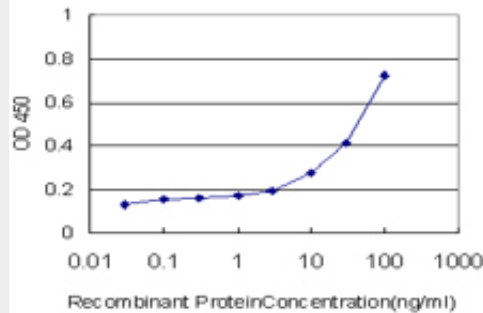
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.41 KDa) .



Western Blot analysis of ARHGEF1 expression in transfected 293T cell line by ARHGEF1 monoclonal antibody (M02), clone 2D2.

Lane 1: ARHGEF1 transfected lysate (Predicted MW: 102.4 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ARHGEF1 is approximately 1ng/ml as a capture antibody.

### **ARHGEF1 Antibody (monoclonal) (M02) - Background**

Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined.

### **ARHGEF1 Antibody (monoclonal) (M02) - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-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. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121. Mutation of ARHGAP9 in patients with coronary spastic angina. Takefuji M, et al. J Hum Genet, 2010 Jan. PMID 19911011. p115 RhoGEF and microtubules decide the direction apoptotic cells extrude from an epithelium. Slattum G, et al. J Cell Biol, 2009 Sep 7. PMID 19720875. Reversible translocation of p115-RhoGEF by G(12/13)-coupled receptors. Meyer BH, et al. J Cell Biochem, 2008 Aug 1. PMID 18320579.