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ARHGEF1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant ARHGEF1.
Catalog # AT1184a

Specification

ARHGEF1 Antibody (monoclonal) (M02) - Product Information

Application	**WB, E**
Primary Accession	Q92888
Other Accession	BC034013
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

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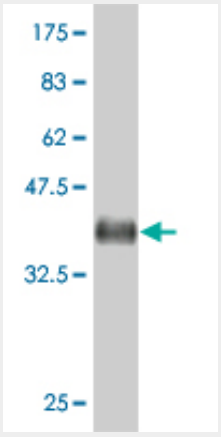
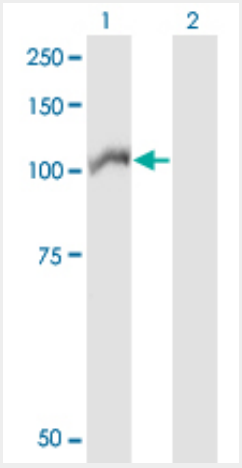
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

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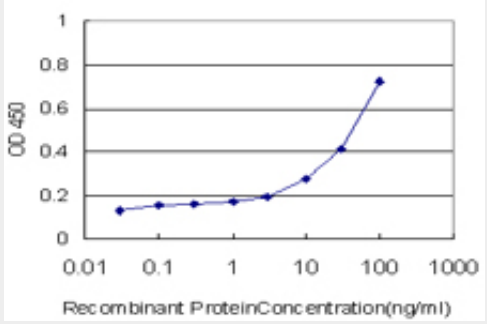

Detection limit for recombinant GST tagged ARHGEF1 is approximately 1ng/ml as a capture antibody.

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 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.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.