

ARF5 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant ARF5.****Catalog # AT1176a****Specification**

ARF5 Antibody (monoclonal) (M01) - Product Information

Application	WB, IF, E
Primary Accession	P84085
Other Accession	BC003043
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	20530

ARF5 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 381**Other Names**

ADP-ribosylation factor 5, ARF5

Target/Specificity

ARF5 (AAH03043, 81 a.a. ~ 180 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

ARF5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

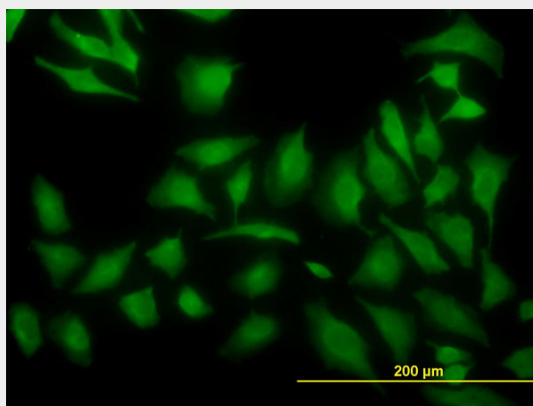
ARF5 Antibody (monoclonal) (M01) - Protocols

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

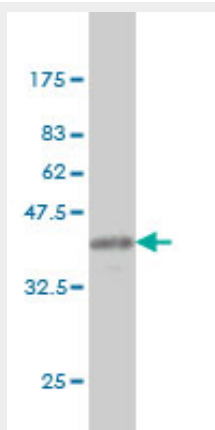
- [Western Blot](#)
- [Blocking Peptides](#)

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

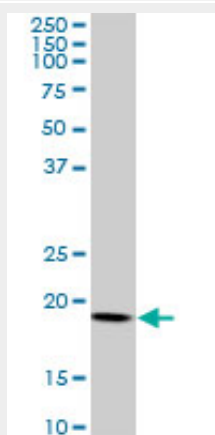
ARF5 Antibody (monoclonal) (M01) - Images



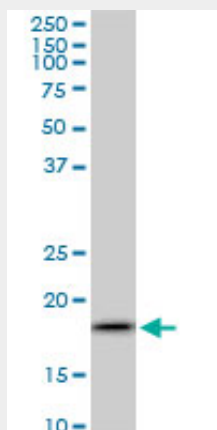
Immunofluorescence of monoclonal antibody to ARF5 on HeLa cell. [antibody concentration 15 ug/ml]



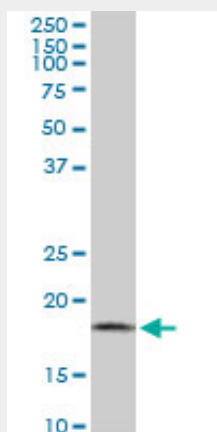
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



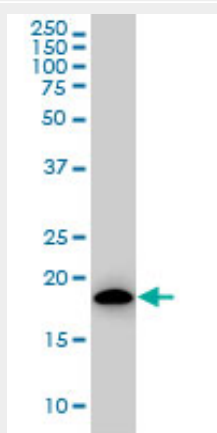
ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in HeLa (Cat # AT1176a)



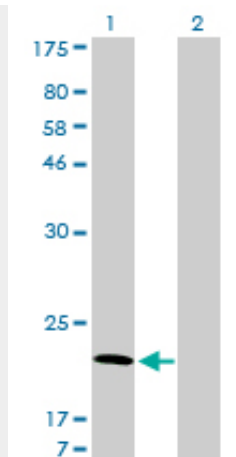
ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in PC-12((Cat # AT1176a)



ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in Raw 264.7((Cat # AT1176a)



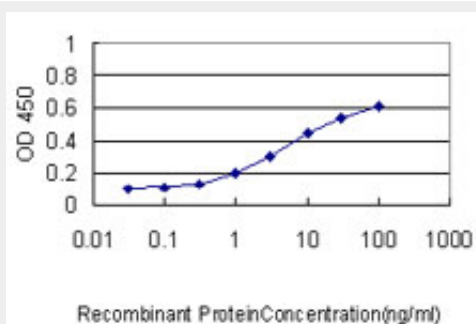
ARF5 monoclonal antibody (M01), clone 1B4 Western Blot analysis of ARF5 expression in A-431 (Cat # AT1176a)



Western Blot analysis of ARF5 expression in transfected 293T cell line by ARF5 monoclonal antibody (M01), clone 1B4.

Lane 1: ARF5 transfected lysate(20.5 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ARF5 is approximately 0.3ng/ml as a capture antibody.

ARF5 Antibody (monoclonal) (M01) - Background

ADP-ribosylation factor 5 (ARF5) is a member of the human ARF gene family. These genes encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking and as activators of phospholipase D. The gene products include 6 ARF proteins and 11 ARF-like proteins and constitute 1 family of the RAS superfamily. The ARF proteins are categorized as class I (ARF1, ARF2, and ARF3), class II (ARF4 and ARF5) and class III (ARF6). The members of each class share a common gene organization. The ARF5 gene spans approximately 3.2kb of genomic DNA and contains six exons and five introns.

ARF5 Antibody (monoclonal) (M01) - References

- 1.A CREB3-ARF4 signalling pathway mediates the response to Golgi stress and susceptibility to pathogens. Reiling JH, Olive AJ, Sanyal S, Carette JE, Brummelkamp TR, Ploegh HL, Starnbach MN, Sabatini DM. *Nat Cell Biol.* 2013 Dec;15(12):1473-85. doi: 10.1038/ncb2865. Epub 2013 Nov 3.
- 2.ARF1 and ARF4 regulate recycling endosomal morphology and retrograde transport from endosomes to the Golgi apparatus. Nakai W, Kondo Y, Saitoh A, Naito T, Nakayama K, Shin H. *Mol Biol Cell.* 2013 Aug;24(16):2570-81. doi: 10.1091/mbc.E13-04-0197. Epub 2013 Jun 19.
- 3.GBF1-Arf-COPI-ArfGAP-mediated Golgi-to-ER transport involved in regulation of lipid homeostasis. Takashima K, Saitoh A, Hirose S, Nakai W, Kondo Y, Takasu Y, Takeya H, Shin HW, Nakayama K. *Cell Struct Funct.* 2011;36(2):223-35.
- 4.Class II ADP-Ribosylation factors are required

for efficient secretion of dengue viruses. Kudelko M, Brault JB, Kwok K, Li MY, Pardigon N, Peiris JS, Bruzzone R, Despres P, Nal B, Wang PG. J Biol Chem. 2011 Nov 21;286(47):41155-63. Epub 2011 Oct 11.5. Interaction of phosphodiesterase 3A with brefeldin A-inhibited guanine nucleotide-exchange proteins BIG1 and BIG2 and effect on ARF1 activity. Puxeddu E, Uhart M, Li CC, Ahmad F, Pacheco-Rodriguez G, Manganiello VC, Moss J, Vaughan M. Proc Natl Acad Sci U S A. 2009 Apr 14;106(15):6158-63. Epub 2009 Mar 30.6. EFA6 facilitates the assembly of the tight junction by coordinating an Arf6-dependent and independent pathway. Klein S, Partisani M, Franco M, Luton F. J Biol Chem. 2008 Oct 31;283(44):30129-38. Epub 2008 Sep 8.7. The brefeldin A-inhibited guanine nucleotide-exchange protein, BIG2, regulates the constitutive release of TNFR1 exosome-like vesicles. Islam A, Shen X, Hiroi T, Moss J, Vaughan M, Levine SJ. J Biol Chem. 2007 Mar 30;282(13):9591-9. Epub 2007 Feb 2.