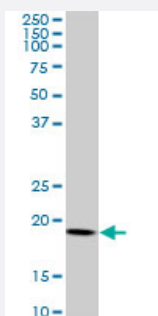


ARF5 monoclonal antibody (M01), clone 1B4

Catalog # H00000381-M01

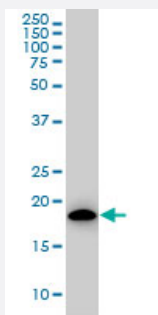
Size 100 ug

Applications



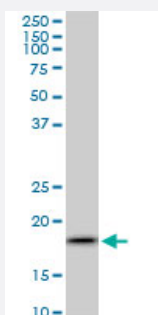
Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in HeLa (Cat # L013V1).



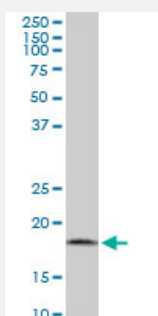
Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4 Western Blot analysis of ARF5 expression in A-431 (Cat # L015V1).



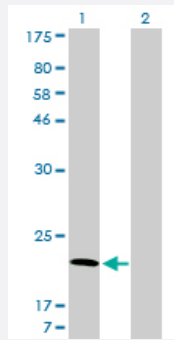
Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in PC-12(Cat # L012V1).



Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in Raw 264.7(Cat # L024V1).

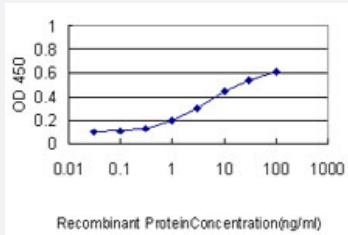


Western Blot (Transfected lysate)

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

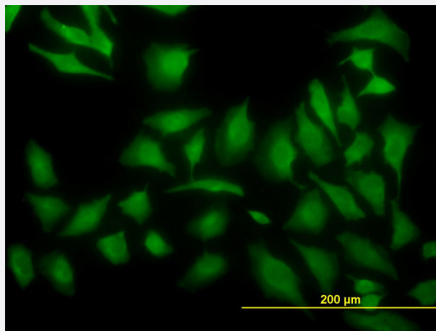
Lane 1: ARF5 transfected lysate(20.5 kDa).

Lane 2: Non-transfected lysate.



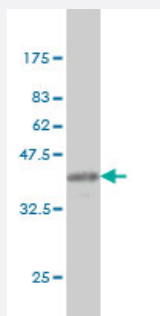
Sandwich ELISA (Recombinant protein)

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



Immunofluorescence

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



Western Blot detection against Immunogen (36.63 kDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ARF5.

Immunogen

ARF5 (AAH03043, 81 a.a. ~ 180 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

Sequence	YFQNTQGLIFVVDSDNDRERVQESADELQKMLQEDELRDVLLVFANKQDMPNAMPVSELTDKLG LQHLSRRTWYVQATCATQGTGLYDGLDWLSHELKR
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (100); Rat (100)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4 Western Blot analysis of ARF5 expression in A-431 (Cat # L015V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in PC-12(Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

ARF5 monoclonal antibody (M01), clone 1B4. Western Blot analysis of ARF5 expression in Raw 264.7(Cat # L024V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — ARF5

Entrez GeneID	381
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GeneBank Accession#	BC003043
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Protein Accession#	AAH03043
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Gene Name	ARF5
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Gene Alias	-
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Gene Description	ADP-ribosylation factor 5
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Omim ID	103188
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Gene Ontology	Hyperlink
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Gene Summary

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. [provided by RefSeq]

Other Designations

-

Publication Reference

- [BIG1 Controls Macrophage Pro-Inflammatory Responses Through ARF3-mediated PI\(4,5\)P2 Synthesis.](#)

Lixin Liu, Sulin Zhang, Yirui Wang, Weilian Bao, Yile Zhou, Wenzhen Dang, Xu Wang, Haidong Li, Xinyue Cao, Yan You, Hao Fang, Xiaoyan Shen.

Cell Death & Disease 2020 May; 11(5):374.

Application: WB-Ce, Mouse, Bone marrow-derived macrophages

- [Cell survival and protein secretion associated with Golgi integrity in response to Golgi stress-inducing agents.](#)

Ignashkova TI, Gendarme M, Peschk K, Eggenweiler HM, Lindemann RK, Reiling JH.

Traffic (Copenhagen, Denmark) 2017 Jun; 18(8):530.

Application: WB-Ce, Human, 786-0, A549, HeLa, MCF7, PANC1 cells

- [Chlamydia Hijacks ARF GTPases To Coordinate Microtubule Posttranslational Modifications and Golgi Complex Positioning.](#)

Wesolowski J, Weber MM, Nawrotek A, Dooley CA, Calderon M, St Croix CM, Hackstadt T, Cherfils J, Paumet F.

Mbio 2017 May; 8(3):e02280.

Application: WB, C. trachomatis, C. trachomatis transfected-, or infected-lysates

- [Class I Arfs \(Arf1 and Arf3\) and Arf6 are localized to the Flemming body and play important roles in cytokinesis.](#)

Hanai A, Ohgi M, Yagi C, Ueda T, Shin HW, Nakayama K.

Journal of Biochemistry 2016 Feb; 159(2):201.

Application: IF, WB-Tr, Human, HeLa cells

- [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.

Nature Cell Biology 2013 Dec; 15(12):1473.

Application: WB, Human, PC3, HeLa cells

- [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 HW.

Molecular Biology of the Cell 2013 Aug; 24(16):2570.

Application: IF, Human, HeLa cells

- [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.

The Journal of Biological Chemistry 2012 Jan; 287(1):767.

Application: WB-Tr, Human, HeLa cells

- [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 Structure and Function 2011 Oct; 36(2):223.

Application: WB-Tr, Human, HeLa cells

- [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.

PNAS 2009 Apr; 106(15):6158.

Application: WB-Tr, Human, HepG2 cells

- [EFA6 facilitates the assembly of the tight junction by coordinating an Arf6-dependent and independent pathway.](#)

Klein S, Partisani M, Franco M, Luton F.

The Journal of Biological Chemistry 2008 Sep; 283(44):30129.

Application: WB, Dog, MDCK (NBL-2) cells

- [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.

The Journal of Biological Chemistry 2007 Feb; 282(13):9591.

Application: WB, Human, HUVEC