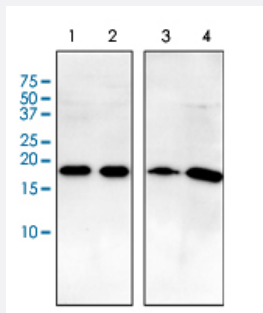


ARF1 monoclonal antibody, clone AT1B3

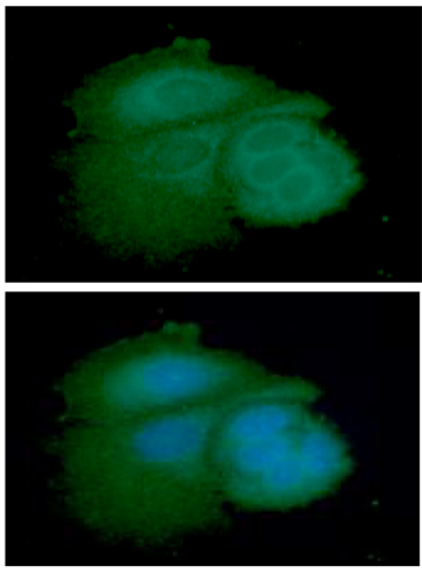
Catalog # MAB10011 Size 100 uL

Applications



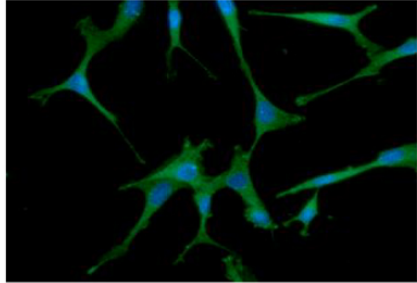
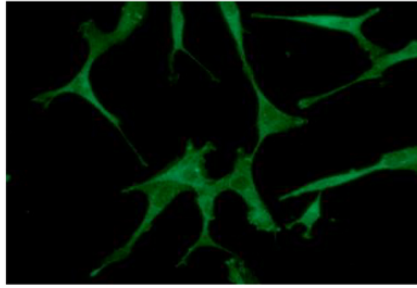
Western Blot

Western Blot analysis of (1) HeLa cell lysate, (2) HepG2 cell lysate, (3) brain tissue lysate and (4) MCF cell lysate.



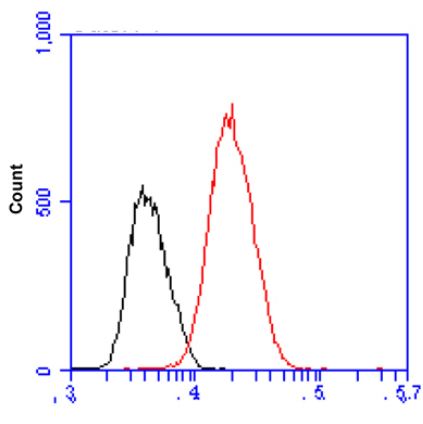
Immunofluorescence

Immunofluorescent staining of MCF-7 cell line stained with DAPI (Blue) for nucleus staining and ARF1 monoclonal antibody, clone AT1B3 (Cat # MAB10011) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



Immunofluorescence

Immunofluorescent staining of U87 MG cell line stained with DAPI (Blue) for nucleus staining and ARF1 monoclonal antibody, clone AT1B3 (Cat # MAB10011) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



Flow Cytometry

Flow cytometric analysis of ARF1 in MCF-7 cell line, staining at 2-5 ug for 1 x 10⁶ cells (Red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (Black line).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant ARF1.
Immunogen	Recombinant protein corresponding to full length human ARF1.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Concentration	1 mg/mL
Isotype	IgG1, kappa

Recommend Usage	ELISA
	Flow Cytometry (2.5 ug for 10 ⁶ cells)
	Immunocytochemistry (1:100)
	Immunofluorescence (1:100)
	Western Blot (1:1000)
	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of (1) HeLa cell lysate, (2) HepG2 cell lysate, (3) brain tissue lysate and (4) MCF cell lysate.

- Immunocytochemistry

- Immunofluorescence

Immunofluorescent staining of MCF-7 cell line stained with DAPI (Blue) for nucleus staining and ARF1 monoclonal antibody, clone AT1B3 (Cat # MAB10011) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

- Immunofluorescence

Immunofluorescent staining of U87 MG cell line stained with DAPI (Blue) for nucleus staining and ARF1 monoclonal antibody, clone AT1B3 (Cat # MAB10011) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of ARF1 in MCF-7 cell line, staining at 2-5 ug for 1 x 10⁶ cells (Red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (Black line).

Gene Info — ARF1

Entrez GeneID [375](#)

Protein Accession# [NP_001649](#)

Gene Name	ARF1
Gene Alias	-
Gene Description	ADP-ribosylation factor 1
Omim ID	103180
Gene Ontology	Hyperlink
Gene Summary	ADP-ribosylation factor 1 (ARF1) is a member of the human ARF gene family. The family members encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking as activators of phospholipase D. The gene products, including 6 ARF proteins and 11 ARF-like proteins, constitute a 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), and members of each class share a common gene organization. The ARF1 protein is localized to the Golgi apparatus and has a central role in intra-Golgi transport. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000035715

Publication Reference

- [Arf1 coordinates fatty acid metabolism and mitochondrial homeostasis.](#)

Ludovic Enkler, Viktoria Szentgyörgyi, Mirjam Pennauer, Cristina Prescianotto-Baschong, Isabelle Riezman, Aneta Wiesyk, Reut Ester Avraham, Martin Spiess, Einat Zalcvar, Roza Kucharczyk, Howard Riezman, Anne Spang.

Nature Cell Biology 2023 Aug; 25(8):1157.

Application: WB, Human, Yeast, HeLa cells, Saccharomyces cerevisiae

Pathway

- [Vibrio cholerae infection](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Diabetes Complications](#)

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)