

## ARG57110 anti-ARF1 antibody [1B3]

Package: 50 μl Store at: -20°C

# Summary

Product Description	Mouse Monoclonal antibody [1B3] recognizes ARF1
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1B3
lsotype	IgG1, kappa
Target Name	ARF1
Species	Human
Immunogen	Recombinant fragment around aa. 1-181 of Human ARF1
Conjugation	Un-conjugated
Alternate Names	ADP-ribosylation factor 1

# **Application Instructions**

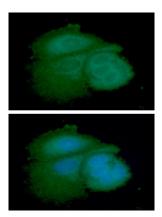
Application table	Application	Dilution
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recomn should be determined by the so	nended starting dilutions and the optimal dilutions or concentrations ientist.

# Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Database links	GenelD: 375 Human
	Swiss-port # P84077 Human
Gene Symbol	ARF1
Gene Full Name	ADP-ribosylation factor 1
Background	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, Jul 2008]
Function	GTP-binding protein that functions as an allosteric activator of the cholera toxin catalytic subunit, an ADP-ribosyltransferase. Involved in protein trafficking among different compartments. Modulates vesicle budding and uncoating within the Golgi complex. Deactivation induces the redistribution of the entire Golgi complex to the endoplasmic reticulum, suggesting a crucial role in protein trafficking. In its GTP-bound form, its triggers the association with coat proteins with the Golgi membrane. The hydrolysis of ARF1-bound GTP, which is mediated by ARFGAPs proteins, is required for dissociation of coat proteins from Golgi membranes and vesicles. The GTP-bound form interacts with PICK1 to limit PICK1-mediated inhibition of Arp2/3 complex activity; the function is linked to AMPA receptor (AMPAR) trafficking, regulation of synaptic plasicity of excitatory synapses and spine shrinkage during long-term depression (LTD). [UniProt]
Calculated Mw	21 kDa
PTM	Demyristoylated by S.flexneri cysteine protease IpaJ which cleaves the peptide bond between N- myristoylated Gly-2 and Asn-3.

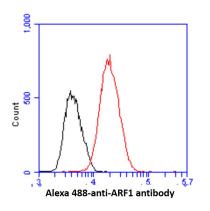
## Images

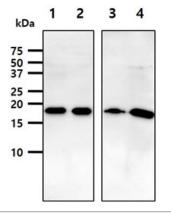


### ARG57110 anti-ARF1 antibody [1B3] ICC/IF image

Immunofluorescence: MCF7 cell line stained with ARG57110 anti-ARF1 antibody [1B3] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



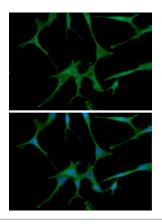


#### ARG57110 anti-ARF1 antibody [1B3] FACS image

Flow Cytometry: MCF7 cell line stained with ARG57110 anti-ARF1 antibody [1B3] at 2-5  $\mu$ g for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).

#### ARG57110 anti-ARF1 antibody [1B3] WB image

Western blot: 40  $\mu g$  of 1) HeLa, 2) HepG2, 3) Brain tissue lysate, and 4) MCF cell lysates stained with ARG57110 anti-ARF1 antibody [1B3] at 1:1000.



## ARG57110 anti-ARF1 antibody [1B3] ICC/IF image

Immunofluorescence: U87MG cell line stained with ARG57110 anti-ARF1 antibody [1B3] at 1:100 (Green).

DAPI (Blue) for nucleus staining.