ARG64084
anti-ARF1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ARF1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Dog
Tested Application	WB
Specificity	This antibody is expected to recognize all four reported isoforms (ARF1, 2, 3, 4).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ARF1
Immunogen	C-EGLDWLSNQLRNQK
Conjugation	Un-conjugated
Alternate Names	ADP-ribosylation factor 1

Application Instructions

Application table

Application	Dilution
WB	1 - 3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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 or below. 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.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 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]
Research Area	Signaling Transduction antibody
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

ARG64084 anti-ARF1 antibody WB image

Western blot: 35 µg of HepG2 cell lysate stained with ARG64084 anti-ARF1 antibody at 1 µg/ml dilution.