

KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1181**Specification****KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P84077
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 21 kDa, observed, 18 kDa KDa
Gene Name	ARF1
Aliases	ARF1; ADP Ribosylation Factor 1; ADP-Ribosylation Factor 1; EC 3.6.5.2; PVNH8
Immunogen	A synthesized peptide derived from human ARF1

KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	375
Other Names	
ADP-ribosylation factor 1, 3.6.5.2, ARF1	

KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody - Protein Information**Name** ARF1**Function**

Small GTPase involved in protein trafficking between different compartments (PubMed:8253837). Modulates vesicle budding and uncoating within the Golgi complex (PubMed:8253837). In its GTP-bound form, triggers the recruitment of coatamer proteins to the Golgi membrane (PubMed:8253837). The hydrolysis of ARF1-bound GTP, which is mediated by ARFGAPs proteins, is required for dissociation of coat proteins from Golgi membranes and vesicles (PubMed:8253837). The GTP- bound form interacts with PICK1 to limit PICK1-mediated inhibition of Arp2/3 complex activity; the function is linked to AMPA receptor (AMPA) trafficking, regulation of synaptic plasticity of excitatory synapses and spine shrinkage during long-term depression (LTD) (By similarity). Plays a key role in the regulation of intestinal stem cells and gut microbiota, and is essential for maintaining intestinal homeostasis (By similarity). Also plays a critical role in mast cell expansion but not in mast cell maturation by facilitating optimal mTORC1 activation (By similarity).

Cellular Location

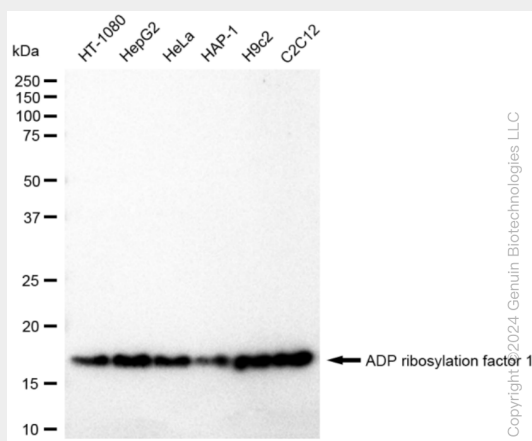
Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Synapse, synaptosome {ECO:0000250|UniProtKB:P84079}. Postsynaptic density {ECO:0000250|UniProtKB:P84079}. Note=In the GDP-bound form, associates transiently with the membranes via its myristoylated N-terminus where guanine nucleotide-exchange factor (GEF)-mediated nucleotide exchange occurs (By similarity). Following nucleotide exchange, the GTP-bound form undergoes a conformational change, leading to the exposure of a myristoylated N-terminal amphipathic helix that provides stable membrane anchorage (By similarity). {ECO:0000250|UniProtKB:P84080}

KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody - Protocols

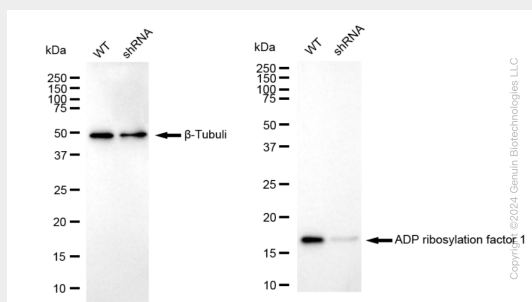
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-ADP ribosylation factor 1 Rabbit Monoclonal Antibody - Images

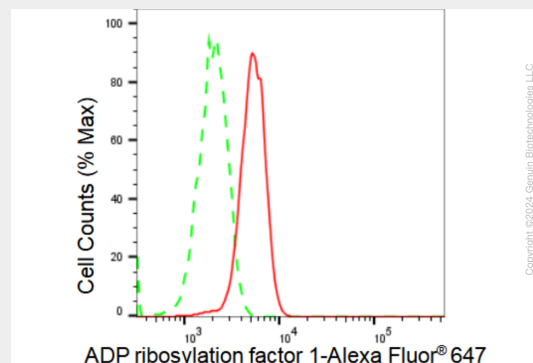


Western blotting analysis using anti-ADP ribosylation factor 1 antibody (Cat#AGI1181). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ADP ribosylation factor 1 antibody (Cat#AGI1181, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

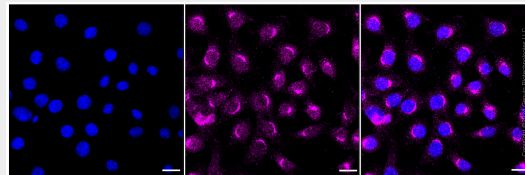


Western blotting analysis using anti-ADP ribosylation factor 1 antibody (Cat#AGI1181). ADP

ribosylation factor 1 expression in wild type (WT) and ADP ribosylation factor 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-ADP ribosylation factor 1 antibody (Cat#AGI1181, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ADP ribosylation factor 1 expression in C2C12 cells using ADP ribosylation factor 1 antibody (Cat#AGI1181, 1:2000). Green, isotype control; red, ADP ribosylation factor 1.



Immunocytochemical staining of C2C12 cells with ADP ribosylation factor 1 antibody (Cat#AGI1181, 1:1,000). Nuclei were stained blue with DAPI; ADP ribosylation factor 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.