Product Name: KD-Validated ADP Ribosylation Factor 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01605

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 20.7kDa

Antigen Information

Gene Name	ARF1
Alternative Names	ARF1; ADP Ribosylation Factor 1; ADP-Ribosylation Factor 1; EC 3.6.5.2; PVNH8
Gene ID	375.0
SwissProt ID	P84077
Immunogen	A synthesized peptide derived from human ARF1

Background

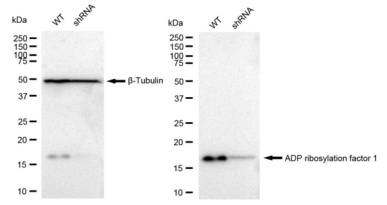
ADP-ribosylation factor 1 (ARF1) is a member of the human ARF gene family. The family members encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking as activators of phospholipase D. The gene products, 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]

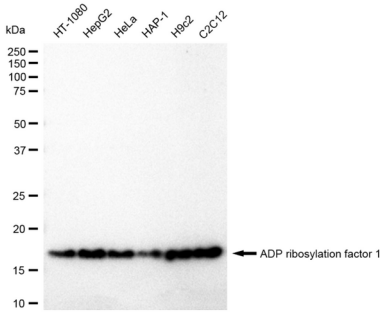
Research Area

Signal Transduction

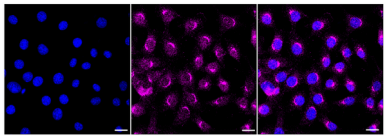
Image Data



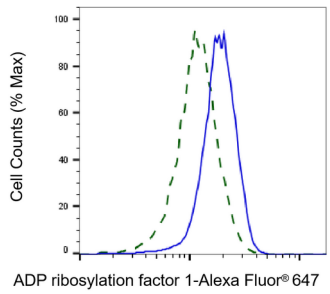
Western blotting analysis using ADP ribosylation factor 1 antibody (KVAb01605). ADP ribosylation factor 1 expression in wild type (WT) and ADP ribosylation factor 1 (ARF1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with ADP ribosylation factor 1 antibody (KVAb01605, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



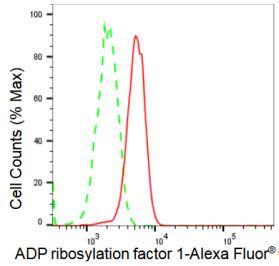
Western blotting analysis using ADP ribosylation factor 1 antibody (KVAb01605). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ADP ribosylation factor 1 antibody (KVAb01605, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with ADP ribosylation factor 1 antibody (KVAb01605, 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.



Validation of ADP ribosylation factor 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with ADP ribosylation factor 1 antibody (KVAb01605, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of ADP ribosylation factor 1 expression in C2C12 cells using ADP ribosylation factor 1 antibody (KVAb01605, 1:2,000). Green, isotype control; red, ADP ribosylation factor 1.