



Rabbit Anti-ARF1 antibody

SL12508R

Product Name:	ARF1
Chinese Name:	ADP核糖基化因子1抗体
Alias:	ADP Ribosylation Factor 1; ADP-ribosylation factor 1; ARF 1; ARF-1; ARF1 HUMAN; DJ133P16.1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	21kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ARF1:35-130/181
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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, it 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.

Subunit:

Interacts with PRKCABP, GGA1 and PIP5K1B (By similarity). Interacts with ARFGAP1, which hydrolyzes GTP and thus, regulates its function. Interacts with ASAP2, HERC1 and ARHGAP21. Interacts with PI4KB in the Golgi complex. Interacts with NCS1/FREQ in the Golgi and at the plasma membrane. This interaction at the plasma membrane requires a myristoylated NCS1/FREQ. Interacts with TMED2 and TMED10. Interacts with PLEKHA3. Interacts with PLEKHA8; the interaction, together with phosphatidylinositol 4-phosphate binding, is required for the FAPP2-mediated glucosylceramide transfer activity.

Subcellular Location:

Golgi apparatus. Cytoplasm > perinuclear region.

Similarity:

Belongs to the small GTPase superfamily. Arf family.

SWISS:

P84077

Gene ID:

375

Database links:

[Entrez Gene: 375](#)Human

[Entrez Gene: 11840](#)Mouse

[Entrez Gene: 64310](#)Rat

[Oimim: 103180](#)Human

[SwissProt: P84077](#)Human

[SwissProt: P84078](#)Mouse

[SwissProt: P84079](#)Rat

[Unigene: 286221](#)Human

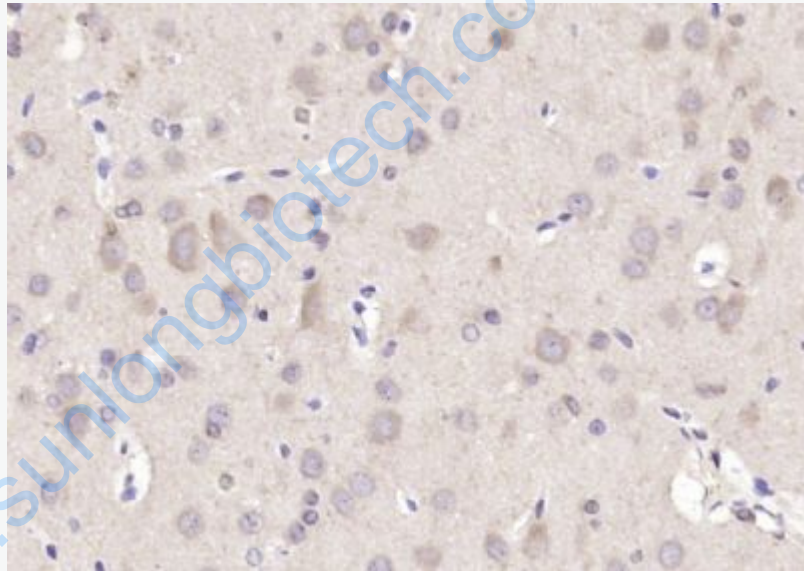
[Unigene: 371546](#)Mouse

[Unigene: 6836](#)Mouse

[Unigene: 93735](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ARF1) Polyclonal Antibody, Unconjugated (SL12508R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.