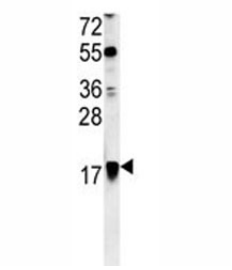
ARF1 Antibody / ADP-ribosylation factor 1 (F49371)

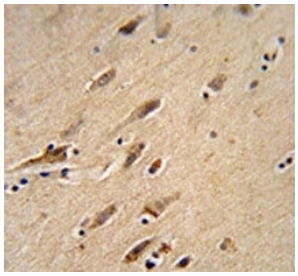
Catalog No.	Formulation	Size
F49371-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49371-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Bovine, Mouse, Primate, Rat, Xenopus
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P84077
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This ARF1 antibody is available for research use only.



ARF1 antibody western blot analysis in Ramos lysate. Predicted molecular weight ~21kDa.



ARF1 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue.

Description

ARF1 is a 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]

Application Notes

Titration of the ARF1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 80-106 from the human protein was used as the immunogen for this ARF1 antibody.

Storage

Aliquot the ARF1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.