For Research Use Only

ARF4 Polyclonal antibody

Catalog Number:11673-1-AP Featured Product 36 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
11673-1-AP

Size:
150ul , Concentration: 400 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2272

GenBank Accession Number:
BC003364

GeneID (NCBI):
378

Full Name:
ADP-ribosylation factor 4

Calculated MW:
180 aa, 21 kDa

Observed MW:
16 kDa, 21 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for IP and 1:1000-1:6000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HT-29 cells, HeLa cells, HepG2 cells, K-562 cells, mouse brain tissue, rat brain tissue

IP : HepG2 cells, mouse brain tissue

IHC : human breast cancer tissue,

IF : HepG2 cells,

Background Information

ARF4, also named as ARF2, belongs to the small GTPase superfamily and Arf family. ADP-ribosylation factors (ARFs) are members of the ARF family of GTP-binding proteins of the Ras superfamily, with 20 kDa protein size. ARFs bind and regulate GTP/GDP cycle by alternating between the active GTP-bound and inactive GDP-bound conformations. ARF family proteins are essential and ubiquitous in eukaryotes. Six highly conserved members of the family have been identified in mammalian cells. They function in vesicular traffic and actin remodelling and other bioprocesses in cells. ARF4 and ARF5 are class II ARFs. Their function are not fully described. (PMID: 7759471, PMID: 16042562). This antibody can bind ARFs for the close sequences.

Notable Publications

Author	Pubmed ID	Journal	Application
Jain Sachi S	23050017	PLoS One	WB
Arisa Ochiai	34523057	Neurochem Res	WB
Ayako Hanai	26330566	J Biochem	IF

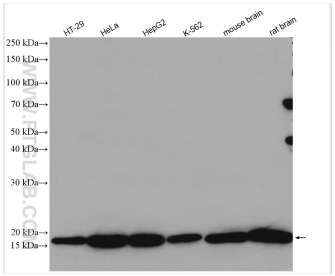
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

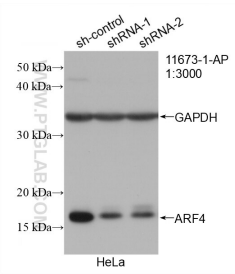
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

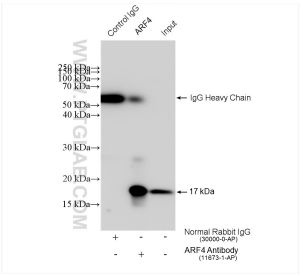
Selected Validation Data



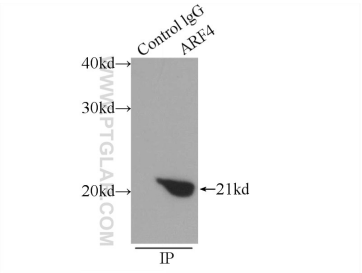
Various lysates were subjected to SDS PAGE followed by western blot with 11673-1-AP (ARF4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



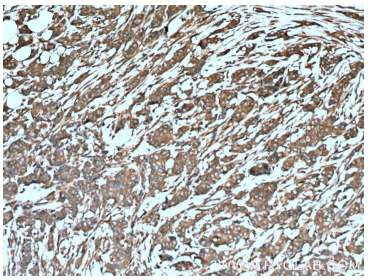
WB result of ARF4 antibody (11673-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARF4 transfected HeLa cells.



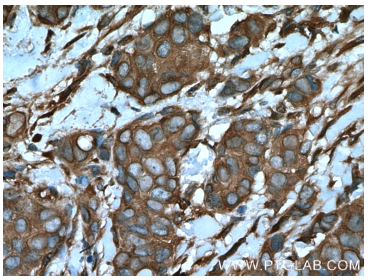
IP result of anti-ARF4(IP:11673-1-AP, 4ug; Detection:11673-1-AP 1:3000) with HepG2 cells lysate 1080 ug.



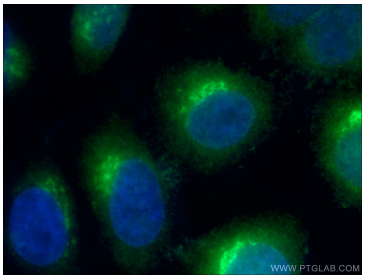
IP Result of anti-ARF4 (IP:11673-1-AP, 3ug; Detection:11673-1-AP 1:600) with mouse brain tissue lysate 5200ug.



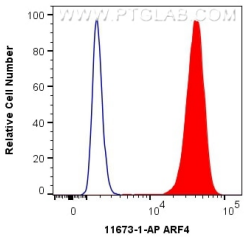
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11673-1-AP (ARF4 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11673-1-AP (ARF4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 11673-1-AP (ARF4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human ARF4 (11673-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).