

For Research Use Only

# ARF4 Polyclonal antibody

Catalog Number: 11673-1-AP

Featured Product

37 Publications



## Basic Information

### Catalog Number:

11673-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2272

### GenBank Accession Number:

BC003364

### GeneID (NCBI):

378

### UNIPROT ID:

P18085

### 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 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF

### 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, mouse brain tissue

**IF/ICC** : HeLa 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

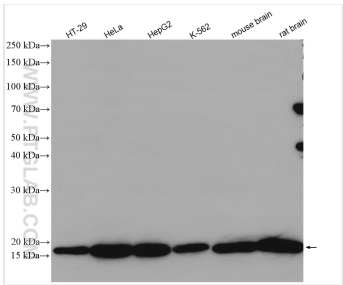
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

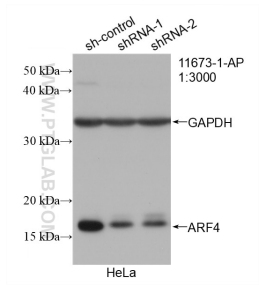
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

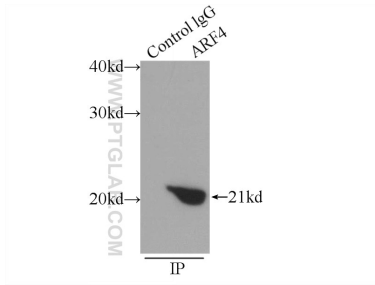
Selected Validation Data



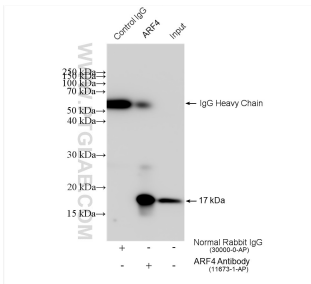
Various lysates were subjected to SDS PAGE followed by western blot with 11673-1-AP (ARF4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



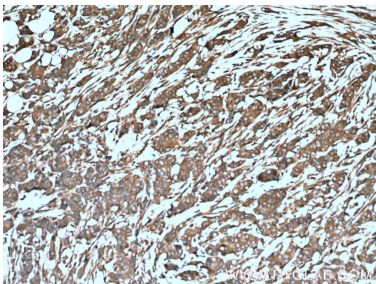
WB result of ARF4 antibody (11673-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ARF4 transfected HeLa cells.



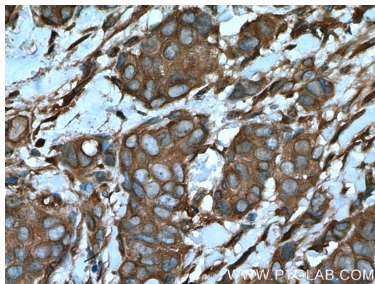
IP result of anti-ARF4 (IP:11673-1-AP, 3ug; Detection:11673-1-AP 1:600) with mouse brain tissue lysate 5200ug.



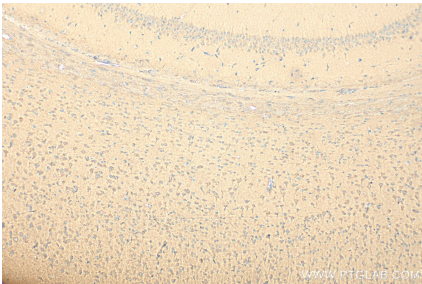
IP result of anti-ARF4 (IP:11673-1-AP, 4ug; Detection:11673-1-AP 1:3000) with HepG2 cells lysate 1080 ug.



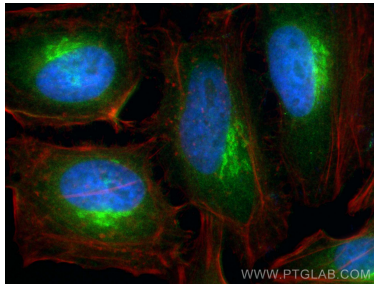
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11673-1-AP (ARF4 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



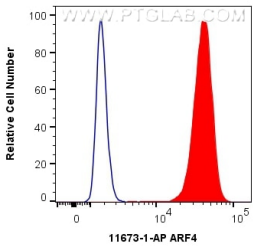
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11673-1-AP (ARF4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain 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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ARF4 antibody (11673-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



1X10<sup>6</sup> 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).