For Research Use Only

# RAB1A Polyclonal antibody

Catalog Number:11671-1-AP Featured Product 21 Publications

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## Basic Information

Catalog Number:
11671-1-AP

Size:
700 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2264

GenBank Accession Number:
BC000905

GeneID (NCBI):
5861

UNIPROT ID:
P62820

Full Name:
RAB1A, member RAS oncogene family

Calculated MW:
205 aa, 23 kDa

Observed MW:
23 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:8000
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, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

***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 : mouse brain tissue, human brain tissue, NIH/3T3 cells, U-251 cells, rat brain tissue, U2OS cells

IP : A549 cells, C2C12 cells

IHC : human lung cancer tissue, human liver tissue, human colon cancer tissue

IF/ICC : C2C12 cells, NIH/3T3 cells, A549 cells

## Background Information

Rab1A is a member of the Rab family of small GTPases with a well characterized function in the regulation of vesicle trafficking from the endoplasmic reticulum to the Golgi apparatus and within Golgi compartments. Rab1A has recently been reported an mTORC1 activator and a colorectal oncogene (Janice D. Thomas. et al. 2014. Cancer cell).

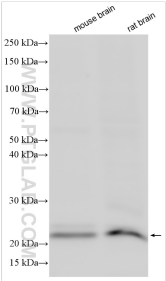
## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Ranran Sun | 33008587 | Biochem Biophys Res Commun | WB |
| Tinglei Huang | 34627950 | Cancer Lett | WB,IHC,IF |
| Xinxin Wang | 27902464 | Aging (Albany NY) | WB,IHC |

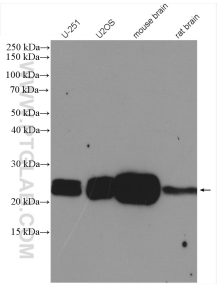
## Storage

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

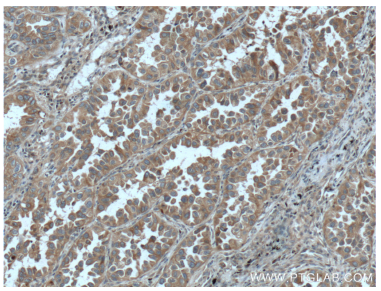
## Selected Validation Data



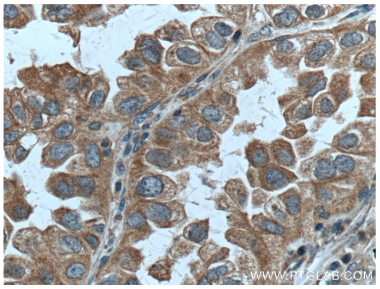

Various lysates were subjected to SDS PAGE followed by western blot with 11671-1-AP (RAB1A antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours.



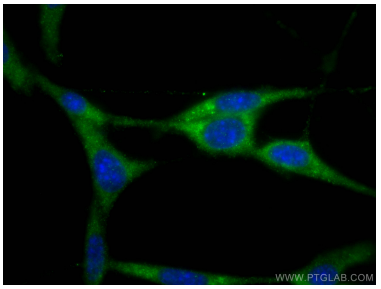

Various lysates were subjected to SDS PAGE followed by western blot with 11671-1-AP (RAB1A antibody) at dilution of 1:2000 incubated at 4 degree celsius over night.



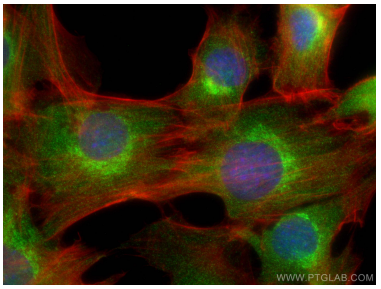
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11671-1-AP (RAB1A Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



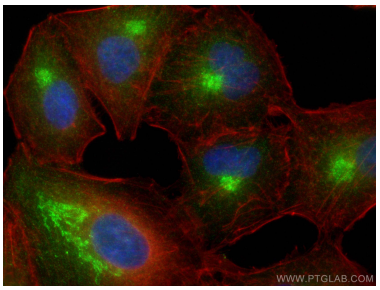
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11671-1-AP (RAB1A Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



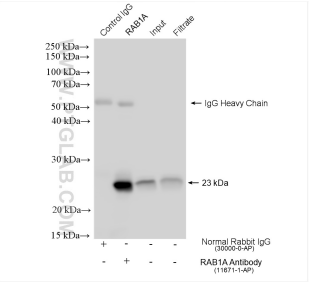
Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using RAB1A antibody (11671-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



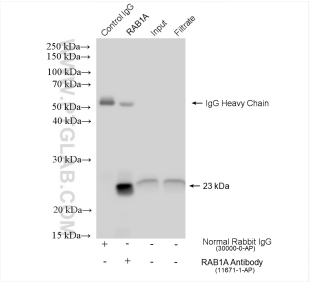
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using RAB1A antibody (11671-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



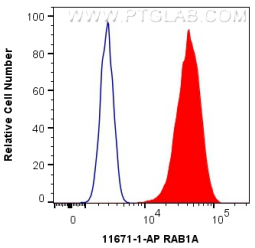
Immunofluorescent analysis of (4% PFA) fixed A549 cells using RAB1A antibody (11671-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).

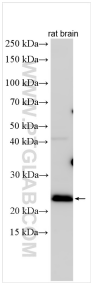



IP result of anti-RAB1A (IP:11671-1-AP, 4ug; Detection:11671-1-AP 1:4000) with A549 cells lysate 920 ug.




IP result of anti-RAB1A (IP:11671-1-AP, 4ug; Detection:11671-1-AP 1:4000) with C2C12 cells lysate 1280 ug.



1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human RAB1A (11671-1-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).

Various lysates were subjected to SDS PAGE followed by western blot with 11671-1-AP (RAB1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.