

For Research Use Only

# RAB1B Polyclonal antibody

Catalog Number: 17824-1-AP

Featured Product

16 Publications



## Basic Information

### Catalog Number:

17824-1-AP

### Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12197

### GenBank Accession Number:

BC071169

### GeneID (NCBI):

81876

### UNIPROT ID:

Q9H0U4

### Full Name:

RAB1B, member RAS oncogene family

### Calculated MW:

201 aa, 22 kDa

### Observed MW:

22-25 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, pig, monkey

**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**: A375 cells, HeLa cells, HAP1, A431 cells, NIH/3T3 cells

**IHC**: human heart tissue, human ovary cancer tissue, mouse heart tissue

**IF/ICC**: HeLa cells, NIH/3T3 cells

## Background Information

Ras-related protein Rab-1B (RAB1B) belongs to the small GTPase superfamily and Rab family. Rab1b, a GTPase regulating secretory transport, was recently associated with targeting proteins to LDs in a Drosophila RNAi screen. Rab1b recruits lipid-synthesizing enzymes, facilitating Lipid droplets (LDs) growth. The small GTPase Rab1b interacts with diacylglycerol acyltransferase 2 to facilitate its targeting to the surface of lipid droplets (PMID: 38809969). Rab1b, an extensively studied and established master regulator of ER-to-Golgi transport. The mechanism of Rab1b's function is to promote ER to LD surface targeting of those triglyceride-synthesizing enzymes that can associate with the unique lipid monolayer comprising the LD surface (PMID: 38809969). Rab1b is a regulatory protein involved in both COPI and COPII transport (PMID: 17429068).

## Notable Publications

Author	Pubmed ID	Journal	Application
Miao Zhang	36175800	Int J Legal Med	WB
Hao Bo	30588252	J Cancer	WB
Janice D Thomas	25446900	Cancer Cell	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

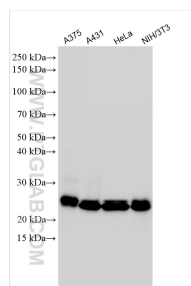
For technical support and original validation data for this product please contact:

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

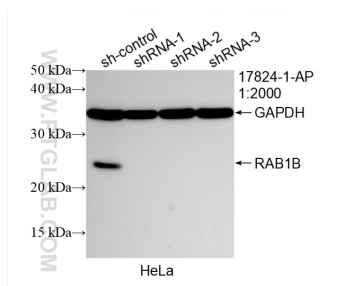
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

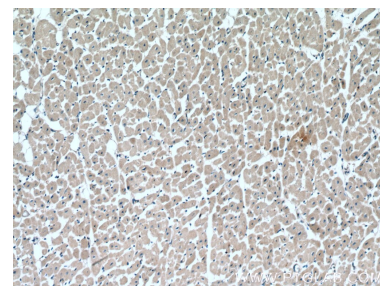
## Selected Validation Data



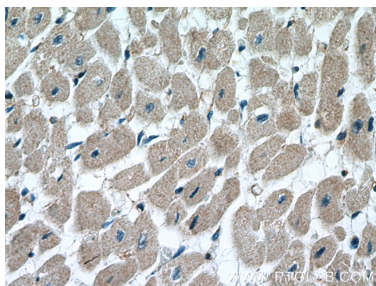
Various lysates were subjected to SDS PAGE followed by western blot with 17824-1-AP (RAB1B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



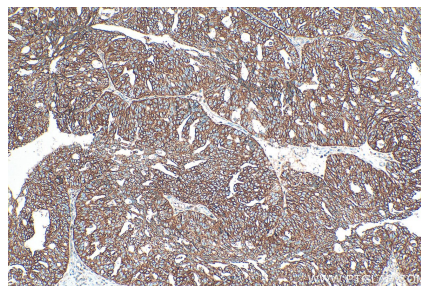
WB result of RAB1B antibody (17824-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RAB1B transfected HeLa cells.



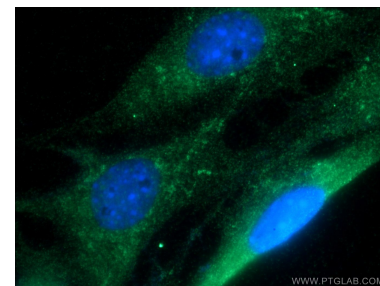
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 17824-1-AP (RAB1B Antibody) at dilution of 1:200 (under 10x lens).



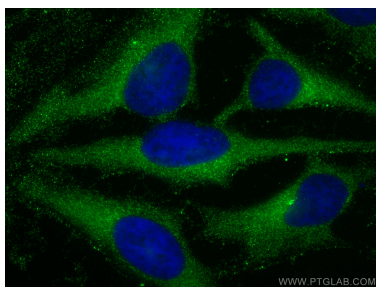
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 17824-1-AP (RAB1B Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 17824-1-AP (RAB1B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of NIH/3T3 cells using 17824-1-AP (RAB1B antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using RAB1B antibody (17824-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).