

For Research Use Only

# RAB10 Polyclonal antibody

Catalog Number: 27094-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

27094-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25830

### GenBank Accession Number:

BC000896

### GeneID (NCBI):

10890

### UNIPROT ID:

P61026

### Full Name:

RAB10, member RAS oncogene family

### Calculated MW:

200 aa, 23 kDa

### Observed MW:

23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

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

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat, canine

### 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 : MCF-7 cells, HeLa cells, MDCK cells, mouse brain tissue, rat brain tissue

IHC : human colon tissue,

IF/ICC : NIH/3T3 cells,

## Background Information

RAB10 is a member of the RAB family of small GTPases, which are key regulators of vesicular trafficking. RAB proteins are cyclically controlled, requiring a GDP-GTP exchange that is facilitated by RAB guanine nucleotide exchange factors. Rab10 plays essential functional roles in development: mice are embryonic lethal when both alleles are deleted. In addition, RAB10 plays a role in maintenance and regulation of endoplasmic reticulum (ER) morphology. RAB10 function has also been linked to neuronal morphology and polarization, playing a critical role in axonal development and dendrite arborization.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tatsuo Miyamoto	32368833	EMBO J	WB
Miku Fukawa	37137223	Biochem Biophys Res Commun	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

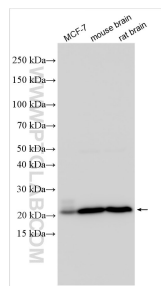
For technical support and original validation data for this product please contact:

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

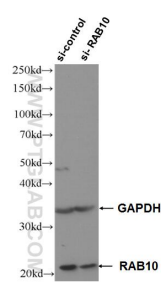
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

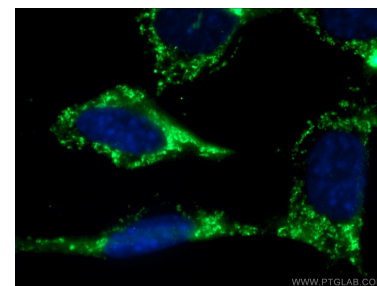
## Selected Validation Data



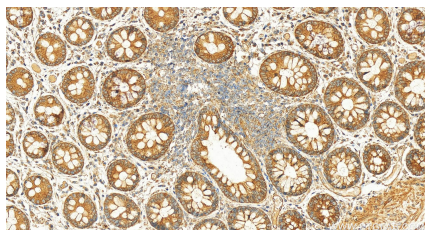
Various lysates were subjected to SDS PAGE followed by western blot with 27094-1-AP (RAB10 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



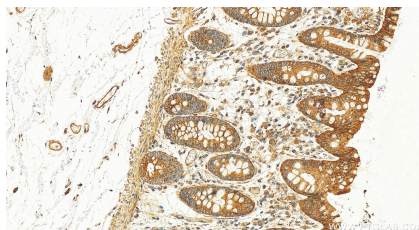
WB result of RAB10 antibody (27094-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RAB10 transfected HeLa cells.



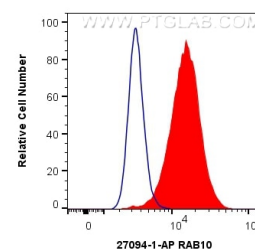
Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using 27094-1-AP (RAB10 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 27094-1-AP (RAB10 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 27094-1-AP (RAB10 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human RAB10 (27094-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).