

For Research Use Only

# MYH10 Polyclonal antibody

Catalog Number: 21403-1-AP

2 Publications



## Basic Information

### Catalog Number:

21403-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 433 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16113

### GenBank Accession Number:

BC150634

### GeneID (NCBI):

4628

### UNIPROT ID:

P35580

### Full Name:

myosin, heavy chain 10, non-muscle

### Calculated MW:

1985 aa, 230 kDa

### Observed MW:

229 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, bovine

### Positive Controls:

WB : mouse brain tissue, rat brain

IP : mouse brain tissue,

IF/ICC : HepG2 cells,

## Background Information

MYH10 (non-muscle II-b, NM IIB) is a member of non-muscle myosin II which plays fundamental roles in the maintenance of cell morphology, cell adhesion, and migration, as well as cell division. MYH10 is mainly present in nerve cells, megakaryocytes, and other non-muscle cells. It has been reported to mediate centrosome reorientation during cell migration and contribute to ciliogenesis. Overexpression of MYH10 has been observed in breast cancer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yao Dai	39048823	Nature	WB,IP,IF
Xin Li	38661523	J Agric Food Chem	WB,IP,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

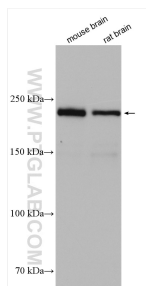
For technical support and original validation data for this product please contact:

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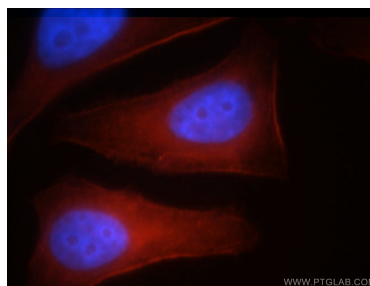
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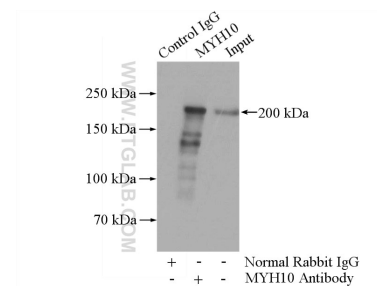
## Selected Validation Data



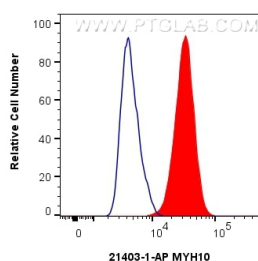
Various lysates were subjected to SDS PAGE followed by western blot with 21403-1-AP (MYH10 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using MYH10 antibody 21403-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-MYH10 (IP:21403-1-AP, 4ug; Detection:21403-1-AP 1:1500) with mouse brain tissue lysate 3440ug.



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug MYH10 Polyclonal antibody (21403-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).