

For Research Use Only

# MYH10 Monoclonal antibody

Catalog Number: 67243-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 67243-1-Ig	<b>GenBank Accession Number:</b> BC150634	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2000 µg/ml	<b>GeneID (NCBI):</b> 4628	<b>CloneNo.:</b> 2H8G7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P35580	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> myosin, heavy chain 10, non-muscle	
<b>Immunogen Catalog Number:</b> AG17069	<b>Calculated MW:</b> 1985 aa, 230 kDa	
	<b>Observed MW:</b> 200-230 kDa	

## Applications

### Tested Applications:

IF-P, IHC, WB, ELISA

### Species Specificity:

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, rat brain tissue, rat cerebellum tissue, mouse cerebellum tissue

IHC : mouse cerebellum tissue,

IF : mouse cerebellum tissue,

## 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.

## 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

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

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

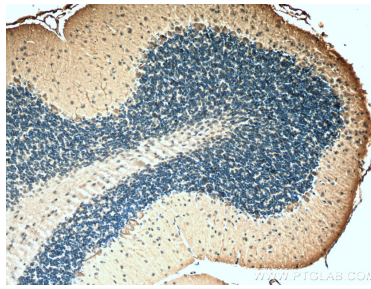
W: [ptgcn.com](http://ptgcn.com)

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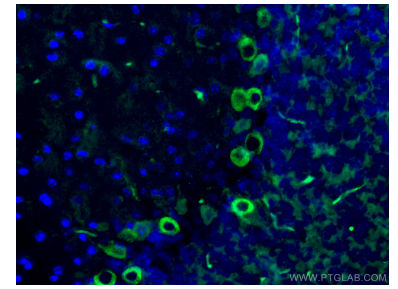
## Selected Validation Data



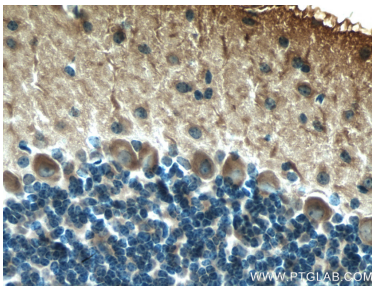
mouse brain tissue were subjected to SDS PAGE followed by western blot with 67243-1-Ig (MYH10 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



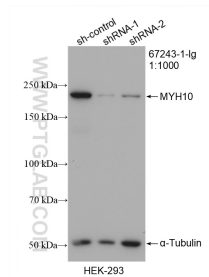
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 67243-1-Ig (MYH10 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using MYH10 antibody (67243-1-Ig, Clone: 2H8G7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 67243-1-Ig (MYH10 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of MYH10 antibody (67243-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MYH10 transfected HEK-293 cells.