For Research Use Only

MYH10 Monoclonal antibody

Catalog Number:67243-1-Ig Featured Product 2 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
67243-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG17069

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:
200-230 kDa

Purification Method:
Protein A purification

CloneNo.:
2H8G7

Recommended Dilutions:
WB: 1:1000-1:6000
IHC: 1:150-1:600
IF-P: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB

Species Specificity:
Human, mouse, rat

Cited Species:
human

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-P : 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Liyin Zhang	41617081	J Genet Genomics	
Zailing Shang	40384981	Front Cell Infect Microbiol	WB

Storage

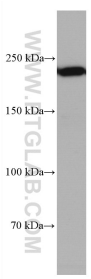
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

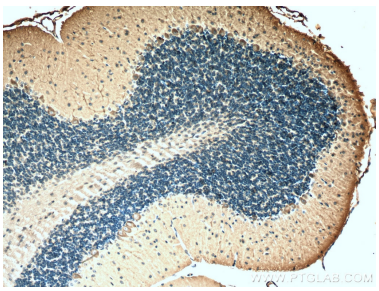
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

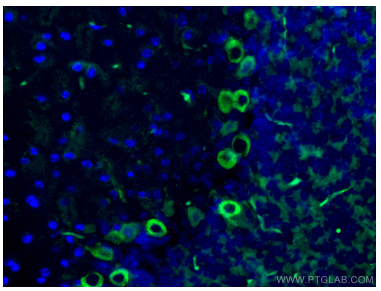
Selected Validation Data



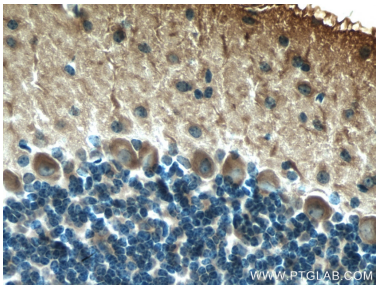
mouse brain tissue were subjected to SDS PAGE followed by western blot with 67243-1-Ig (MYH10 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



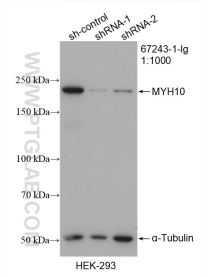
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 67243-1-Ig (MYH10 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 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.