For Research Use Only

# MYH1 Monoclonal antibody

Catalog Number:67299-1-Ig 9 Publications

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

## Basic Information

Catalog Number:
67299-1-Ig

Size:
150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG17129

GenBank Accession Number:
BC114545

GeneID (NCBI):
4619

UNIPROT ID:
P12882

Full Name:
myosin, heavy chain 1, skeletal muscle, adult

Calculated MW:
1939 aa, 223 kDa

Observed MW:
220 kDa

Purification Method:
Protein A purification

CloneNo.:
1G10H9

Recommended Dilutions:
WB 1:20000-1:100000
IHC 1:2000-1:20000
IF-P 1:400-1:1600

## Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, pig

Cited Species:
human, mouse, pig, rabbit, chicken

***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 : human skeletal muscle tissue, pig skeletal muscle tissue, mouse skeletal muscle tissue

IHC : mouse skeletal muscle tissue, rat skeletal muscle tissue

IF-P : mouse skeletal muscle tissue,

## Background Information

MYH1 (MyHC-2x) encodes the IIX isoform of myosin heavy chain (MyHC). Myosin is a large, ubiquitous, motor protein that generates force through its interaction with actin, thus involving it in a number of cellular processes including cytokinesis, karyokinesis, cell migration, and muscle contraction. Muscle fibers can be divided as type 1 (slow) and type 2 (fast). MYH1 belongs to type 2.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Lingyu Zhang | 35583212 | Food Funct | WB |
| Jiangtao Lou | 40042875 | Invest Ophthalmol Vis Sci | IHC |
| Jiayin Lu | 40005024 | Nutrients | IF |

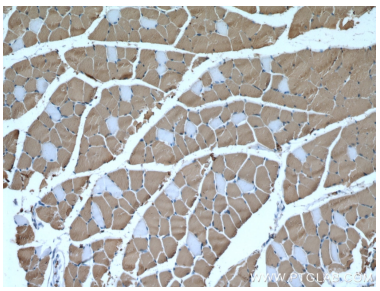
## Storage

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

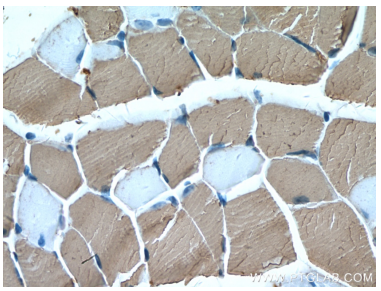
*** 20ul sizes contain 0.1% BSA

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

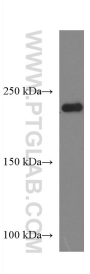
## Selected Validation Data



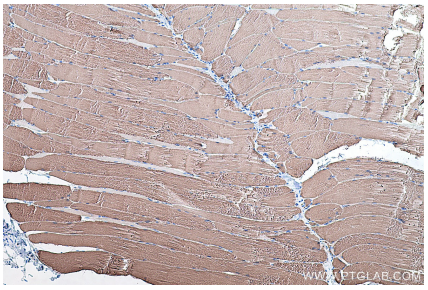
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67299-1-Ig (MYH1 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



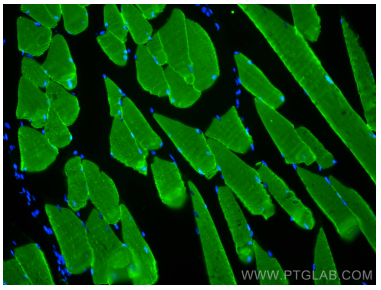
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 67299-1-Ig (MYH1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




1 µg human skeletal muscle lysates were subjected to SDS PAGE followed by western blot with 67299-1-Ig (MYH1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 67299-1-Ig (MYH1 antibody) at dilution of 1:80000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using MYH1 antibody (67299-1-Ig, Clone: 1G10H9 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).