

## MYH2-specific Monoclonal antibody

Catalog Number: 66212-1-Ig 2 Publications

## Basic Information

## Catalog Number:

66212-1-Ig

## Size:

1800 µg/ml

## Source:

Mouse

## Isotype:

IgG2b

## GenBank Accession Number:

NM\_017534

## GeneID (NCBI):

4620

## UNIPROT ID:

Q9UIKX2

## Full Name:

myosin, heavy chain 2, skeletal muscle, adult

## Calculated MW:

223 kDa

## Observed MW:

200 kDa

## Purification Method:

Protein A purification

## CloneNo.:

1F1B6

## Recommended Dilutions:

WB 1:5000-1:100000

IHC 1:2000-1:8000

## Applications

## Tested Applications:

IHC, WB, ELISA

## Cited Applications:

WB

## 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 : human skeletal muscle tissue,

IHC : mouse heart tissue, human skeletal muscle tissue, rat skeletal muscle tissue, mouse skeletal muscle tissue, mouse tongue tissue

## Background Information

MYH2 (Myosin II) is a member of the class II or conventional myosin heavy chains. Myosin II was first isolated from muscle but is also found in non muscle cells, and it is especially enriched in highly motile cell types such as amoebae. It forms bipolar filaments that interact with actin filaments to produce contraction. And it is the motor protein that generates force to drive muscle contraction. Functions in skeletal muscle contraction. The antibody is specific to MYH2, will not bind other myosins. It is a skeletal muscle specific antibody.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenliang Zhang	34580406	Sci Rep	WB
Luchu Zhang	29224337	J Agric Food Chem	WB

## 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

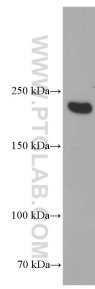
For technical support and original validation data for this product please contact:

T: 4006900926

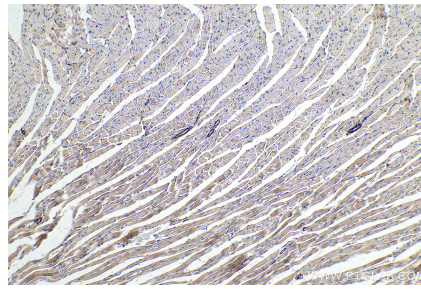
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

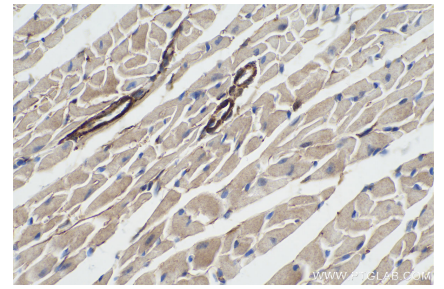
## Selected Validation Data



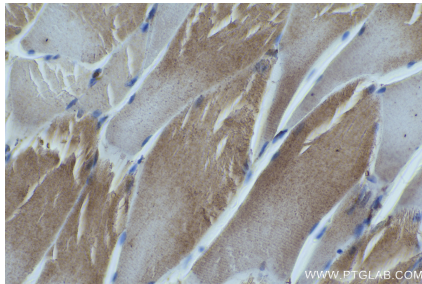
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66212-1-Ig (Myosin 2a antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66212-1-Ig (MYH2-specific antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 66212-1-Ig (MYH2-specific antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 66212-1-Ig (MYH2-specific antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).