

For Research Use Only

# MYH2-specific Monoclonal antibody

Catalog Number: 66212-1-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 66212-1-Ig	<b>GenBank Accession Number:</b> NM_017534	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1800 ug/ml by Nanodrop and 900 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4620	<b>CloneNo.:</b> 1F1B6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UIK2	<b>Recommended Dilutions:</b> WB 1:5000-1:100000 IHC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> myosin, heavy chain 2, skeletal muscle, adult	
	<b>Calculated MW:</b> 223 kDa	
	<b>Observed MW:</b> 200 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	<b>WB :</b> human skeletal muscle tissue,
<b>Species Specificity:</b> human	<b>IHC :</b> human skeletal muscle tissue,
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Takamasa Gomi	39915641	Sci Rep	IHC

## Storage

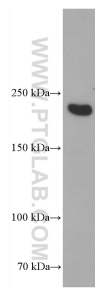
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 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

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## 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 human skeletal muscle tissue slide using 66212-1-Ig (Myosin 2a Antibody) at dilution of 1:100 (under 10x lens).