

For Research Use Only

# MYH9 Monoclonal antibody

Catalog Number: 60233-1-Ig

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 60233-1-Ig	<b>GenBank Accession Number:</b> BC011915	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4627	<b>CloneNo.:</b> 5D9D2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P35579	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:500-1:2000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> myosin, heavy chain 9, non-muscle	
<b>Immunogen Catalog Number:</b> AG1612	<b>Calculated MW:</b> 227 kDa	
	<b>Observed MW:</b> 230 kDa, 160 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Cited Applications:**  
WB, IHC, IF, CoIP

**Species Specificity:**  
human, mouse, pig

**Cited Species:**  
human, mouse

**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 kidney tissue, human kidney tissue, pig spleen tissue, U2OS cells, mouse colon tissue, pig pancreas tissue, A431 cells, human placenta tissue, pig kidney tissue

**IHC :** human skin cancer tissue,

**IF/ICC :** HepG2 cells, U2OS cells

## Background Information

MYH9 (Myosin-9) appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. MYH9 is a hexameric protein that consists of two heavy chains (~200 kDa) and two pairs of non-identical light chains (15-22 kDa), a pair of essential or alkali light chains, and a pair of regulatory light chains (PMID: 12800156).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yiyi Liu	31594754	EBioMedicine	WB,IHC,IF
Shunfeng Hu	34743203	Cell Death Differ	WB,CoIP,IF
Gao-Shan Yang	32685020	Theranostics	IF

## 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

\*\*\* 20ul sizes contain 0.1% BSA

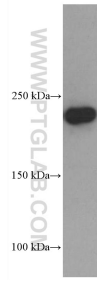
For technical support and original validation data for this product please contact:

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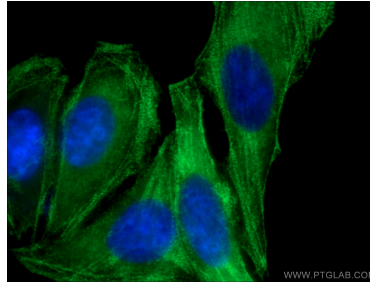
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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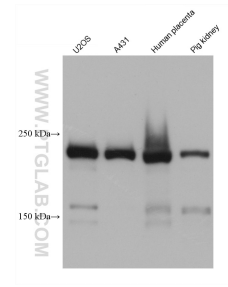
## Selected Validation Data



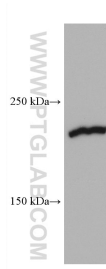
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 60233-1-Ig (MYH9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



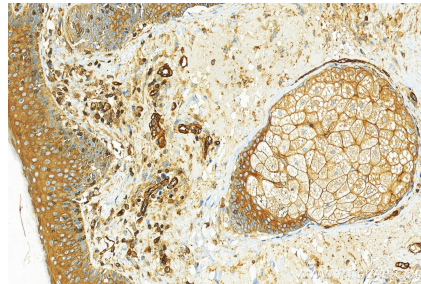
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 60233-1-Ig (MYH9 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 60233-1-Ig (MYH9 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



mouse colon tissue were subjected to SDS PAGE followed by western blot with 60233-1-Ig (MYH9 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 60233-1-Ig (MYH9 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).