

For Research Use Only

# MYH9 Recombinant antibody

Catalog Number: 81204-1-RR **1 Publications**



## Basic Information

<b>Catalog Number:</b> 81204-1-RR	<b>GenBank Accession Number:</b> BC011915	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 800 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4627	<b>CloneNo.:</b> 3E1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35579	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:4950-1:19800 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<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> 224-227 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, 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:** U-251 cells, U-87 MG cells, HeLa cells, A431 cells, U2OS cells, human placenta tissue, rat kidney tissue

**IHC:** rat kidney tissue, human colon cancer tissue

**IF/ICC:** HepG2 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
Qinyuan Jia	39433745	Cell Death Dis	WB

## Storage

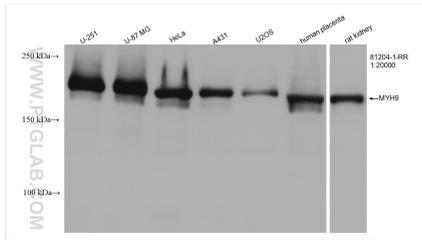
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

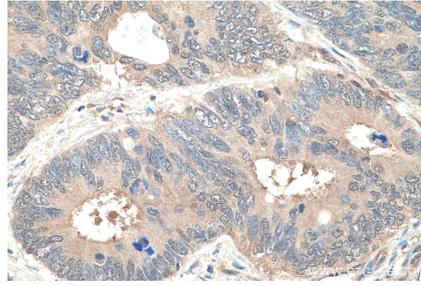
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

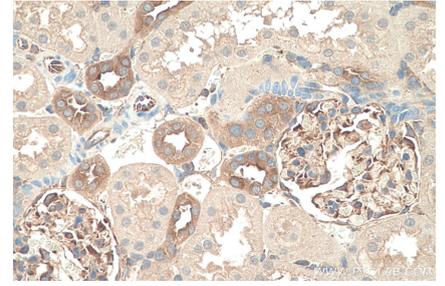
## Selected Validation Data



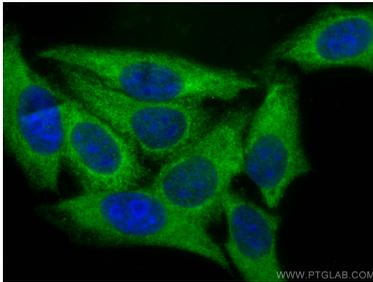
Various lysates were subjected to SDS PAGE followed by western blot with 81204-1-RR (MYH9 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



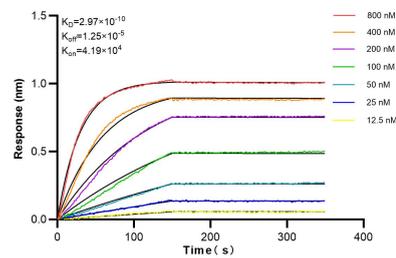
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81204-1-RR (MYH9 antibody) at dilution of 1:9900 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 81204-1-RR (MYH9 antibody) at dilution of 1:9900 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MYH9 antibody (81204-1-RR, Clone: 3E1 ) at dilution of 1:800 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L).



Biolayer interferometry (BLI) kinetic assays of 81204-1-RR against Human MYH9 were performed. The affinity constant is 0.297 nM.