

# MYH14 Monoclonal antibody

Catalog Number: 66825-1-Ig **2 Publications**

## Basic Information

<b>Catalog Number:</b> 66825-1-Ig	<b>GenBank Accession Number:</b> NM_001077186	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1500 µg/ml	<b>GeneID (NCBI):</b> 79784	<b>CloneNo.:</b> 1B4C9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q7Z406	<b>Recommended Dilutions:</b> WB 1:5000-1:100000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> myosin, heavy chain 14	
<b>Immunogen Catalog Number:</b> AG28063	<b>Calculated MW:</b> 228 kDa	
	<b>Observed MW:</b> 200-230 kDa	

## Applications

<b>Tested Applications:</b> FC, IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : COLO 320 cells, HT-29 cells
<b>Cited Applications:</b> IF, WB	<b>IHC :</b> human colon tissue, mouse small intestine tissue
<b>Species Specificity:</b> Human, mouse	<b>IF :</b> mouse skeletal muscle tissue,
<b>Cited Species:</b> rat	
<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

MYH14, also named as KIAA2034 and NMHC II-C, is cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. Defects in MYH14 are the cause of deafness autosomal dominant type 4 (DFNA4).

## Notable Publications

Author	Pubmed ID	Journal	Application
Helena Sofia Domingues	34005293	J Cell Sci	WB, IF
Helena Sofia Domingues	32620697	J Cell Sci	IF

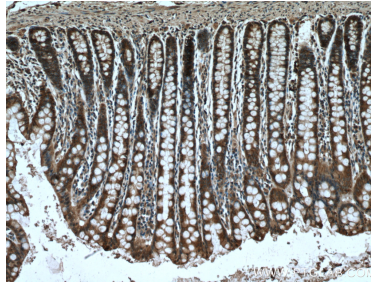
## Storage

**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

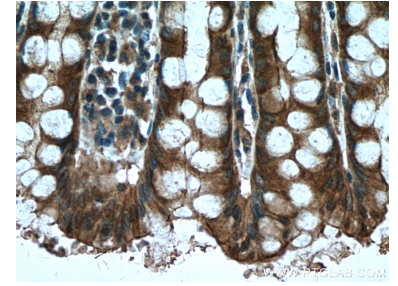
## Selected Validation Data



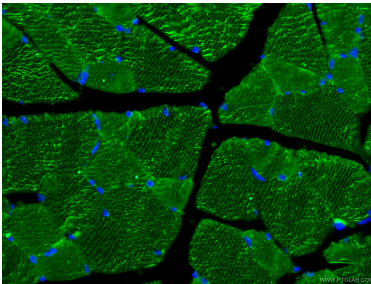
COLO 320 cells were subjected to SDS PAGE followed by western blot with 66825-1-Ig (MYH14 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



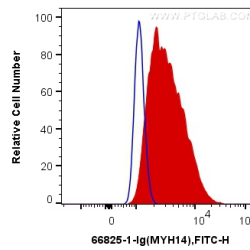
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66825-1-Ig (MYH14 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66825-1-Ig (MYH14 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using 66825-1-Ig (MYH14 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> HT-29 cells were intracellularly stained with 0.2 ug Anti-Human MYH14 (66825-1-Ig, Clone:1B4C9) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.