

For Research Use Only

MYH14 Monoclonal antibody

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



Basic Information

Catalog Number: 66825-1-Ig	GenBank Accession Number: NM_001077186	Purification Method: Protein A purification
Size: 150ul, Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 79784	CloneNo.: 1B4C9
Source: Mouse	Full Name: myosin, heavy chain 14	Recommended Dilutions: WB 1:5000-1:10000 IHC 1:1000-1:4000 IF 1:50-1:500
Isotype: IgG2a	Calculated MW: 228 kDa	
Immunogen Catalog Number: AG28063	Observed MW: 200-230 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls: WB: COLO 320 cells, HT-29 cells
Cited Applications: IF, WB	IHC: human colon tissue, mouse small intestine tissue
Species Specificity: Human, mouse	IF: mouse skeletal muscle tissue,
Cited Species: rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

*** 20ul sizes contain 0.1% BSA

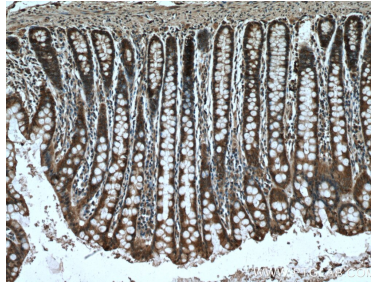
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

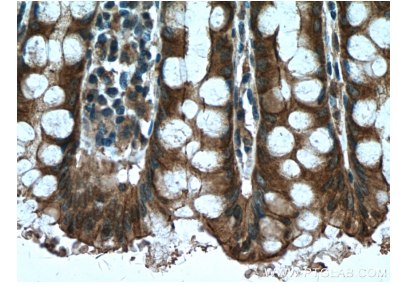
Selected Validation Data



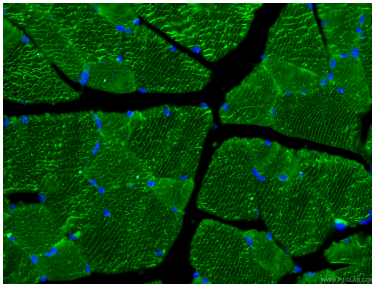
COLO 320 cells were subjected to SDS PAGE followed by western blot with 66825-1-Ig (MYH14 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



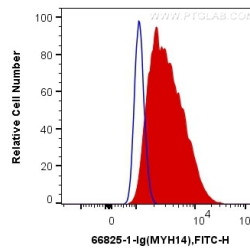
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66825-1-Ig (MYH14 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10⁶ 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.