

For Research Use Only

MYH14 Polyclonal antibody

Catalog Number: 20716-1-AP **12 Publications**



Basic Information

Catalog Number:

20716-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_024729

GeneID (NCBI):

79784

UNIPROT ID:

Q7Z406

Full Name:

myosin, heavy chain 14

Calculated MW:

228 kDa

Observed MW:

228 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:10-1:100

Applications

Tested Applications:

FC, IF/ICC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB: COLO 320 cells, human skeletal muscle tissue, mouse colon tissue, HEK-293 cells, mouse kidney tissue, rat kidney tissue

IP: mouse kidney tissue,

IF: HeLa cells,

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). The antibody is specific to MYH14.

Notable Publications

Author	Pubmed ID	Journal	Application
Nalle Penttimikko	36240269	Sci Adv	IF
Colbie R Chinowsky	33026933	Mol Biol Cell	IF
Cong Li	31885626	Stem Cells Int	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

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

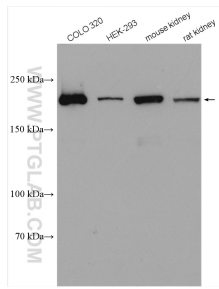
T: 4006900926

E: Proteintech-CN@ptglab.com

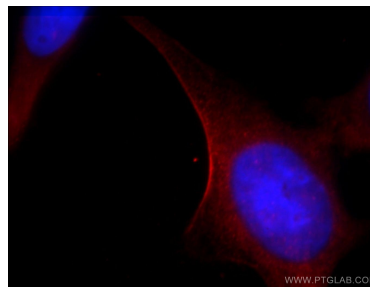
W: ptgcn.com

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

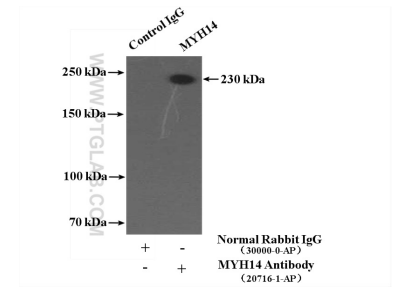
Selected Validation Data



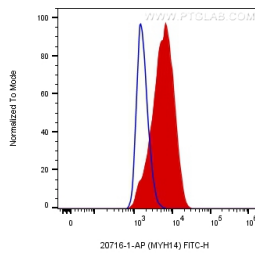
Various lysates were subjected to SDS PAGE followed by western blot with 20716-1-AP (MYH14 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells, using MYH14 antibody 20716-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-MYH14 (IP:20716-1-AP, 4ug; Detection:20716-1-AP 1:2000) with mouse kidney tissue lysate 4800ug.



1X10⁶ HT-29 cells were intracellularly stained with 0.2 ug Anti-Human MYH14 (20716-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.