

For Research Use Only

MYL9 Polyclonal antibody

Catalog Number: 15354-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

15354-1-AP

Concentration:

240 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7600

GenBank Accession Number:

BC002648

GeneID (NCBI):

10398

UNIPROT ID:

P24844

Full Name:

myosin, light chain 9, regulatory

Calculated MW:

20 kDa

Observed MW:

20 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:5000

IHC: 1:250-1:1000

IF-P: 1:50-1:500

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse colon tissue, Caco-2 cells, rat colon tissue

IHC : human liver cancer tissue, human colon cancer tissue

IF-P : mouse heart tissue,

IF/ICC : MCF-7 cells, C2C12 cells

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

Myosin regulatory light polypeptide 9 (MYL9), also known as MLC2, belongs to the myosin regulatory subunits. It plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation at Thr19 and Ser20. Implicated in cytokinesis, receptor capping, and cell locomotion (PMID:11942626, PMID:2526655). Some studies have demonstrated that MYL9 may play important roles in various human cancers. The expression and phosphorylation of MYL9 (Thr19/Ser20) may be increased in human breast (PMID: 22144583) and liver cancers (PMID: 18648664), while decreased in human colon (PMID: 22752057) and bladder cancers (PMID: 21139803). MYL9 was the only gene differentially expressed in the aged versus young injured arteries in the rat smooth muscle cell layers (PMID:22003410).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|---------------------|-------------|
| Junaid Afzal | 36147738 | Front Cell Dev Biol | IF |
| Zhiping Cao | 35614104 | Sci Rep | IHC |
| Xiao-Bing Li | 35598826 | J Biol Chem | |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

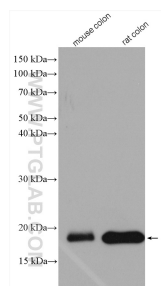
T: 4006900926

E: Proteintech-CN@ptglab.com

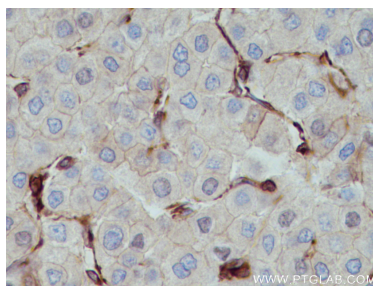
W: ptgcn.com

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

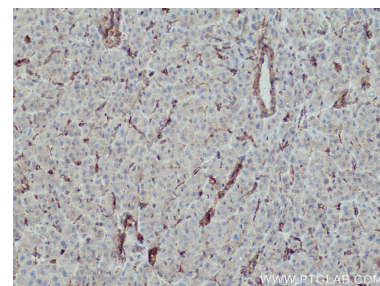
Selected Validation Data



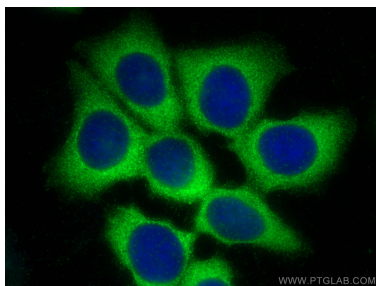
Various lysates were subjected to SDS PAGE followed by western blot with 15354-1-AP (MYL9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



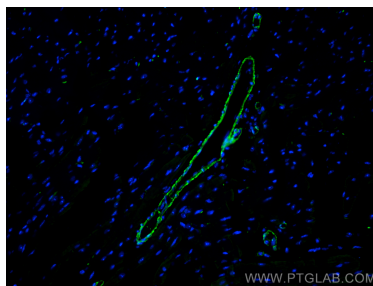
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15354-1-AP (MYL9 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



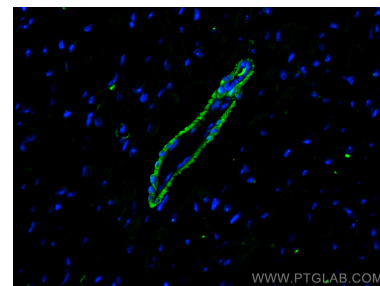
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15354-1-AP (MYL9 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



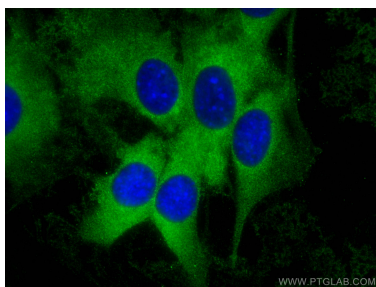
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using MYL9 antibody (15354-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using MYL9 antibody (15354-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using MYL9 antibody (15354-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using MYL9 antibody (15354-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).