

For Research Use Only

MYL9 Polyclonal antibody

Catalog Number: 15354-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number: 15354-1-AP	GenBank Accession Number: BC002648	Purification Method: Antigen affinity purification
Size: 240 µg/ml	GeneID (NCBI): 10398	Recommended Dilutions: WB 1:500-1:5000 IHC 1:250-1:1000 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: P24844	
Isotype: IgG	Full Name: myosin, light chain 9, regulatory	
Immunogen Catalog Number: AG7600	Calculated MW: 20 kDa	
	Observed MW: 20 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : mouse colon tissue, Caco-2 cells, rat colon tissue IHC : human liver cancer tissue, human colon cancer tissue IF : MCF-7 cells, C2C12 cells
Cited Applications: WB, IP, IF, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

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 pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

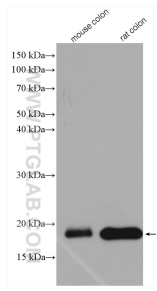
T: 4006900926

E: Proteintech-CN@ptglab.com

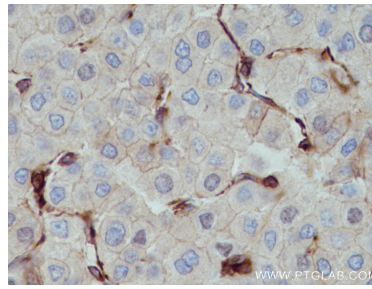
W: ptgcn.com

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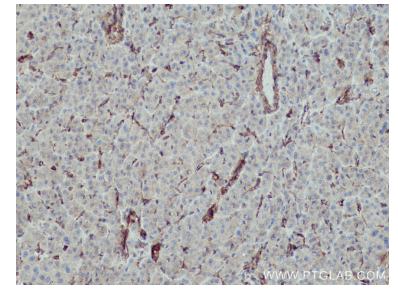
Selected Validation Data



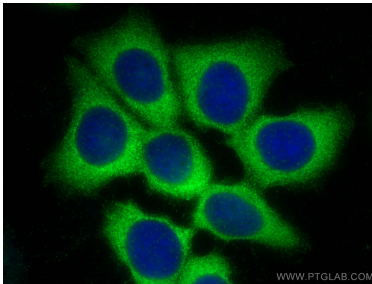
Various lysates were subjected to SDS PAGE followed by western blot with 15354-1-AP (MYL9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



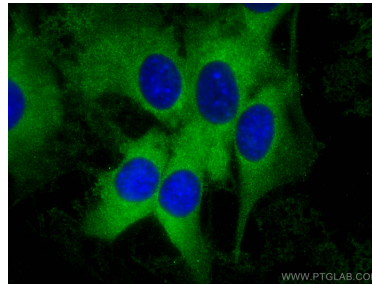
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15354-1-AP (MYL9 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



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 (-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).