

For Research Use Only

Phospho-MYL9 (Thr19/Ser20) Recombinant antibody, PBS Only

Catalog Number: 82717-1-PBS



Basic Information

Catalog Number:

82717-1-PBS

Size:

100ug, Concentration: 1mg/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC002648

GeneID (NCBI):

10398

UNIPROT ID:

P24844

Full Name:

myosin, light chain 9, regulatory

Calculated MW:

20 kDa

Observed MW:

19-20 kDa

Purification Method:

Protein A purification

CloneNo.:

1G10

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, mouse

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).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

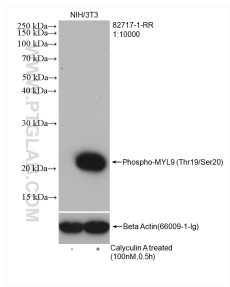
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

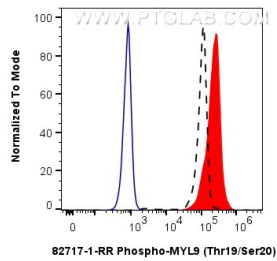
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 82717-1-RR (Phospho-MYL9 (Thr19/Ser20) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin antibody as loading control. This data was developed using the same antibody clone with 82717-1-PBS in a different storage buffer formulation.



1x10⁶ Calyculin A treated HeLa cells were intracellularly stained with 0.25 ug Phospho-MYL9 (Thr19/Ser20) Recombinant antibody (82717-1-RR, Clone:1G10) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 82717-1-PBS in

