

For Research Use Only

# CoraLite® Plus 488-conjugated Phospho-MYL9 (Thr19/Ser20) Recombinant antibody

Catalog Number: CL488-82717



## Basic Information

**Catalog Number:**

CL488-82717

**Size:**

1000 µg/ml

**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

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

FC (Intra)

**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 -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

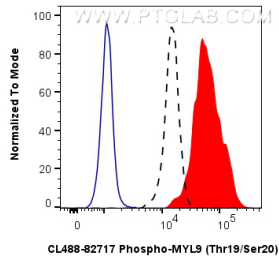
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



1x10<sup>6</sup> Calyculin A treated HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Phospho-Myl9 (Thr19/Ser20) Recombinant Antibody (CL488-82717, Clone:1G10)(red), or 0.4 ug CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.