

For Research Use Only

CoraLite® Plus 488-conjugated MYLK Polyclonal antibody

Catalog Number:CL488-21642



Basic Information

Catalog Number:

CL488-21642

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16306

GenBank Accession Number:

BC113456

GeneID (NCBI):

4638

UNIPROT ID:

Q15746

Full Name:

myosin light chain kinase

Calculated MW:

1914 aa, 211 kDa

Observed MW:

135 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF-P

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: human rectal cancer tissue,

Background Information

MYLK(Myosin light chain kinase) is also named as MLCK, MLCK1, MYLK1 and belongs to the protein kinase superfamily. It is a key enzyme in muscle contraction. Its activation is sufficient to enhance paracellular permeability and is required for tight junction barrier regulation in response to Na⁺-nutrient cotransport, inflammatory cytokines, or pathogenic bacteria(PMID:20404178). The expression of smooth muscle MYLK is tissue-specific. Smooth muscle MYLK generates three different proteins, long MYLK, short MYLK, and telokin. The 130-kDa smooth muscle, or short, MYLK (130 kDa) is expressed in smooth muscles. It has 8 isoforms produced by alternative splicing and alternative initiation and our anti-MYLK antibody can recognize these isoforms.

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:

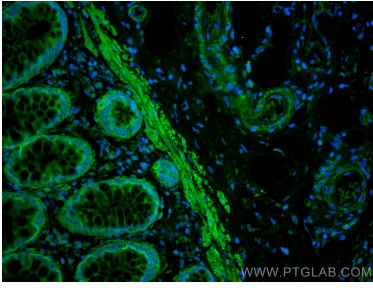
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human rectal cancer tissue using CoraLite® Plus 488 MYLK antibody (CL488-21642) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).