

For Research Use Only

CoraLite® Plus 488-conjugated MYLK Polyclonal antibody

Catalog Number:CL488-21642



Basic Information

Catalog Number: CL488-21642	GenBank Accession Number: BC113456	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4638	Recommended Dilutions: IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: Q15746	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG	Full Name: myosin light chain kinase	
Immunogen Catalog Number: AG16306	Calculated MW: 1914 aa, 211 kDa	
	Observed MW: 135 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P : human rectal cancer tissue,
Species Specificity: human, mouse, rat	

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.

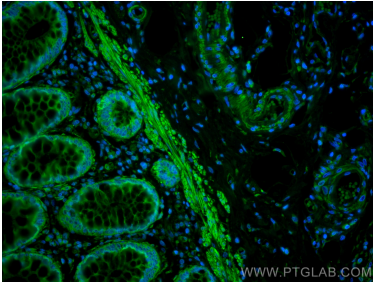
Storage

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