

For Research Use Only

# CoraLite® Plus 488-conjugated MYL3 Polyclonal antibody



Catalog Number:CL488-10913

## Basic Information

<b>Catalog Number:</b> CL488-10913	<b>GenBank Accession Number:</b> BC009790	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4634	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08590	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>IsoType:</b> IgG	<b>Full Name:</b> myosin, light chain 3, alkali; ventricular, skeletal, slow	
<b>Immunogen Catalog Number:</b> AG1364	<b>Calculated MW:</b> 22 kDa	
	<b>Observed MW:</b> 22-27 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : C2C12 cells,
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

MYL3, also named as MLC1v, is an essential light chain of myosin that is associated with muscle contraction. It is expressed in ventricular and slow skeletal muscle. MYL3 may serve as a target for caspase-3 in dying cardiomyocytes. Mutations of MYL3 gene cause hypertrophic cardiomyopathy. MYL3 has been identified as potential serum biomarker for drug induced myotoxicity. Great increase in MYL3 serum concentration has been observed in rats with cardiac and skeletal muscle injury. (PMID:21685905)

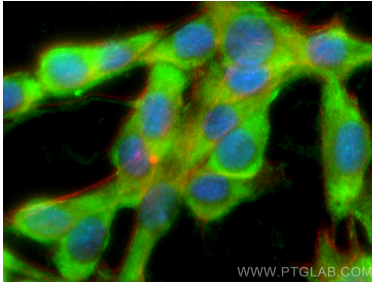
## Storage

**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

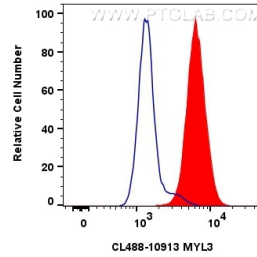
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using CoraLite® Plus 488 MYL3 antibody (CL488-10913) at dilution of 1:200, CL594-Phalloidin (red).



1x10<sup>6</sup> C2C12 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Myl3 Polyclonal Antibody (CL488-10913)(red), or 0.8 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).