## For Research Use Only

# MYL3 Polyclonal antibody

Catalog Number: 10913-1-AP

3 Publications



**Basic Information** 

Catalog Number: 10913-1-AP Size: 550 μg/ml

**UNIPROT ID:** Source: Rabbit P08590 Full Name: Isotype: myosin, light chain 3, alkali;

Immunogen Catalog Number:

AG1364

ventricular, skeletal, slow Calculated MW:

BC009790

4634

GeneID (NCBI):

GenBank Accession Number:

Observed MW: 22-27 kDa

22 kDa

**Purification Method:** 

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:500-1:2000 IF 1:50-1:500

**Applications** 

**Tested Applications:** 

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications: IF, IHC, WB

**Species Specificity:** human, mouse, rat

human, mouse

**Cited Species:** 

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse heart tissue, mouse skeletal muscle tissue.

human heart tissue, rat heart tissue

IP: mouse heart tissue,

IHC: human heart tissue, human lung cancer tissue

IF: C2C12 cells,

## **Background Information**

 $MYL3, also \ named \ as \ MLC1v, is \ an \ essential \ light \ chain \ of \ myosin \ that \ is \ associated \ with \ muscle \ contraction. \ It \ is \ associated \ with \ muscle \ contraction.$ 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)

### **Notable Publications**

Author	Pubmed ID	Journal	Application
He Cao	37794006	Nat Commun	WB,IHC,IF
Yuan Lin	37159428	J Proteome Res	WB
Addona Terri A TA	21685905	Nat Biotechnol	WB

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

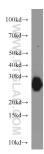
Aliquoting is unnecessary for -20°C storage

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

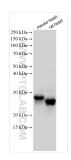
T: 4006900926 E: Proteintech-CN@ptglab.com

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

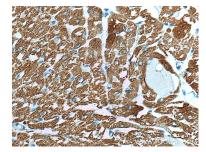
### Selected Validation Data



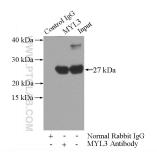
mouse heart tissue were subjected to SDS PAGE followed by western blot with 10913-1-AP (MYL3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



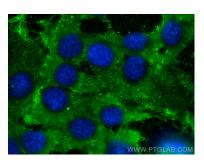
Various lysates were subjected to SDS PAGE followed by western blot with 10913-1-AP (MYL3 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



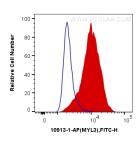
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 10913-1-AP (MYL3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MYL3 (IP:10913-1-AP, 3ug; Detection:10913-1-AP 1:7000) with mouse heart tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using MYL3 antibody (10913-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human MYL3 (10913-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit I gG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).