### For Research Use Only

# MYL4 Monoclonal antibody

Catalog Number:67533-1-lg 6 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number: BC030228

67533-1-lg GeneID (NCBI): Size:

150ul , Concentration: 1200  $\mu g/ml$  by 4635 2F5C1 Nanodrop and 500 µg/ml by Bradford UNIPROT ID: method using BSA as the standard; P12829

Source: Full Name: Mouse myosin, light chain 4, alkali; atrial,

Isotype: embryonic lgG2b Calculated MW: 197 aa, 22 kDa Immunogen Catalog Number: AG19244 Observed MW:

22-25 kDa

**Applications** 

**Tested Applications:** WB, IF, FC, IHC, ELISA

Cited Applications:

Species Specificity: Human, mouse, rat, pig

**Cited Species:** 

human, rat, mouse, pig

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

buffer pH 6.0

**Purification Method:** Protein A purification

CloneNo.:

Recommended Dilutions: WB 1:5000-1:50000 IHC 1:150-1:600 IF 1:200-1:800

Positive Controls:

WB: pig heart tissue, rat heart tissues, mouse heart

tissues

IHC: human heart tissue, IF: mouse heart tissue,

# **Background Information**

Myosin light-chain 4 (MYL4) encodes an essential myosin light chain that is expressed in embryonic whole heart and skeletal muscle. It is specifically expressed in human atria after birth. MYL4 is essential for atrial electrical, functional, and structural integrity, and MYL4 dysfunction can produce severe inherited atrial cardiomyopathy.

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Shixiong Dong	36202278	Gene	WB
Lei Bai	36042463	Cell Biosci	WB
Emmi Helle	34422835	Front Cell Dev Biol	IF

Storage

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

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

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

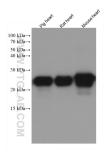
For technical support and original validation data for this product please contact:

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

E: proteintech@ptglab.com W: ptglab.com

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

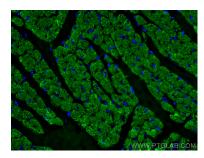
## **Selected Validation Data**



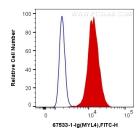
Various lysates were subjected to SDS PAGE followed by western blot with 67533-1-lg (MYL4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human heart tissue slide using 67533-1-Ig (MYL4 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using MYL4 antibody (67533-1-Ig, Clone: 2F5C1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10^6 C2C12 cells were intracellularly stained with 0.4 ug Anti-Human MYL4 (67533-1-1g, Clone:2F5C1) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(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).