

For Research Use Only

MYL3 Monoclonal ANTIBODY



Catalog Number: 66286-1-Ig

Basic Information

Catalog Number:

66286-1-Ig

Size:

150UL, Concentration: 1000 µg/ml by 4634

Bradford method using BSA as the standard;

Source:

Mouse

IsoType:

IgG1

Immunogen Catalog Number:

AG24535

GenBank Accession Number:

BC009790

GeneID (NCBI):

4634

Full Name:

myosin, light chain 3, alkali;
ventricular, skeletal, slow

Calculated MW:

22 kDa

Observed MW:

22-25 kDa

Purification Method:

Protein G purification

CloneNo.:

2E4B2

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:20-1:200

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

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

Positive Controls:

WB: human skeletal muscle tissue, mouse heart tissue

IHC: human heart tissue, human skeletal muscle tissue

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. 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

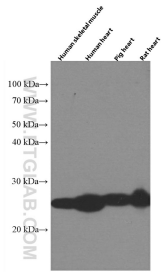
For technical support and original validation data for this product please contact:

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

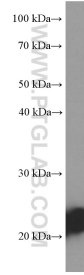
E: proteintech@ptglab.com
W: ptglab.com

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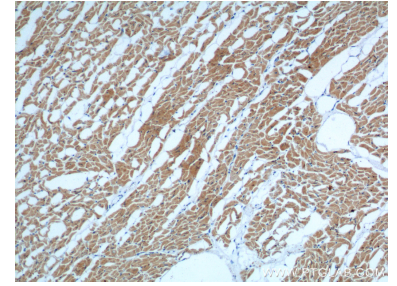
Selected Validation Data



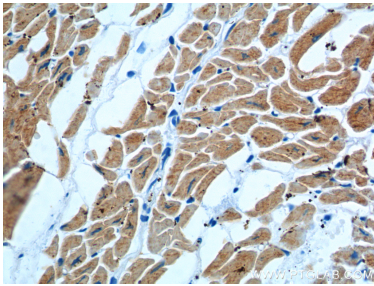
Various tissue lysates were subjected to SDS PAGE followed by western blot with 66286-1-Ig (MYL3 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66286-1-Ig (MYL3 Antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66286-1-Ig (MYL3 Antibody) at dilution of 1:600 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66286-1-Ig (MYL3 Antibody) at dilution of 1:600 (under 40x lens).