

For Research Use Only

MYL3 Monoclonal antibody

Catalog Number: 66286-1-Ig **2 Publications**



Basic Information

| | | |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Catalog Number: 66286-1-Ig | GenBank Accession Number: BC009790 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 4634 | CloneNo.: 2E4B2 |
| Source: Mouse | UNIPROT ID: P08590 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:20-1:200 |
| Isotype: IgG1 | Full Name: myosin, light chain 3, alkali; ventricular, skeletal, slow | |
| Immunogen Catalog Number: AG24535 | Calculated MW: 22 kDa | |
| | Observed MW: 22-25 kDa | |

Applications

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Tested Applications: WB, IHC, ELISA | Positive Controls: |
| Cited Applications: WB | WB : human skeletal muscle tissue, mouse heart tissue, human heart tissue, pig heart tissue, rat heart tissue |
| Species Specificity: human, rat, mouse, pig | IHC : human heart tissue, human skeletal muscle tissue |
| Cited Species: human | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

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)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|----------------------|-------------|
| Yuxuan Zhang | 39765829 | Antioxidants (Basel) | WB |
| Ming Zheng | 38909457 | Transl Oncol | WB |

Storage

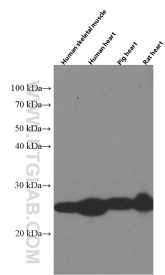
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

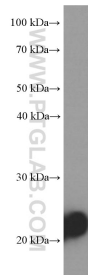
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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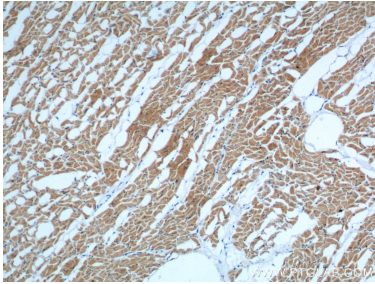
Selected Validation Data



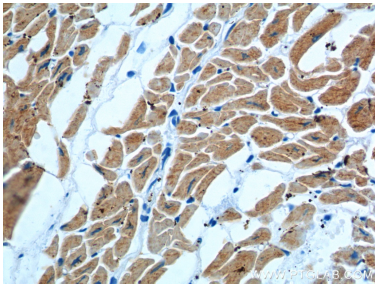
Various tissue lysates were subjected to SDS PAGE followed by western blot with 66286-1-Ig (MYL3 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



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).