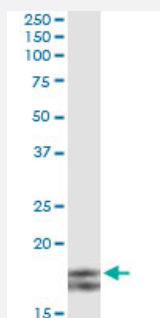


MYL2 monoclonal antibody (M01), clone 3B9-B4

Catalog # H00004633-M01

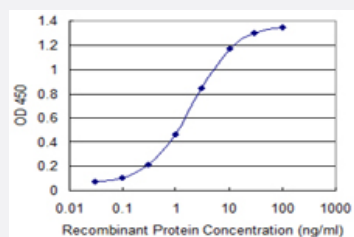
Size 100 ug

Applications



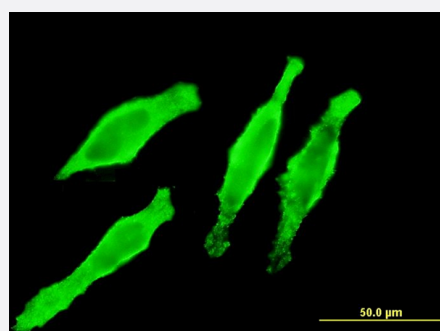
Immunoprecipitation

Immunoprecipitation of MYL2 transfected lysate using anti-MYL2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with MYL2 MaxPab rabbit polyclonal antibody.



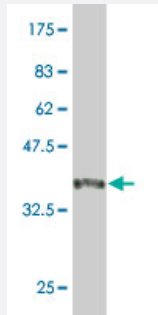
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MYL2 is 0.03 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to MYL2 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (44 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant MYL2.
Immunogen	MYL2 (AAH15821.1, 1 a.a. ~ 166 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAPKKAKKRAGGANSNVFSMFEEQTQIQEFKEAFTIMDQNRDGFIDKNDLRDTFAALGRVNVKNE EIDEMIKEAPGPINFTVFLTMFGEKLGADPEETILNAFKVFDPEGKGVLKADYVREMLTTQAERF SKEEVDQMFAAFPPDVTGNLDYKNLVHIITHGEEKD
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (96); Rat (96)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (44 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of MYL2 transfected lysate using anti-MYL2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with MYL2 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MYL2 is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to MYL2 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — MYL2

Entrez GeneID [4633](#)

GeneBank Accession# [BC015821](#)

Protein Accession# [AAH15821.1](#)

Gene Name MYL2

Gene Alias CMH10, DKFZp779C0562, MLC2

Gene Description myosin, light chain 2, regulatory, cardiac, slow

Omim ID [160781](#) [608758](#)

Gene Ontology [Hyperlink](#)

Gene Summary Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca⁺ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq]

Other Designations RLC of myosin|cardiac ventricular myosin light chain 2|myosin light chain 2|myosin regulatory light chain 2, ventricular/cardiac muscle isoform|myosin, light polypeptide 2, regulatory, cardiac, slow|r regulatory light chain of myosin|slow cardiac myosin reg

Publication Reference

- [Drastic increase of myosin light chain MLC-2 in senescent skeletal muscle indicates fast-to-slow fibre transition in sarcopenia of old age.](#)

Gannon J, Doran P, Kirwan A, Ohlendieck K.

European Journal of Cell Biology 2009 Nov; 88(11):685.

Application: IF, Rat, Muscle

Pathway

- [Focal adhesion](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Leukocyte transendothelial migration](#)
- [Regulation of actin cytoskeleton](#)
- [Tight junction](#)

Disease

- [Cardiomegaly](#)
- [Cardiomyopathy](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)