Anti-Myosin Light Chain 2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013852

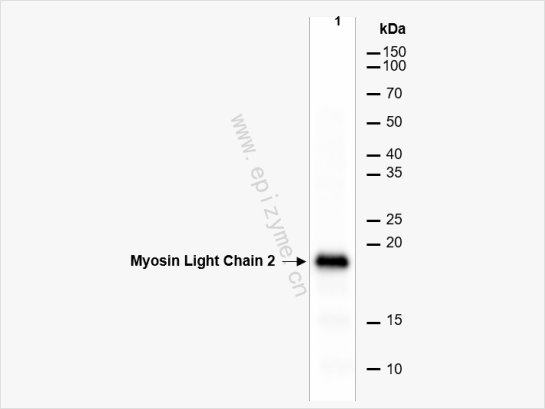
Product Information

Application	WB, ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:5,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	30B12M39
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Myosin Light Chain 2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Myosin Light Chain 2 Rabbit mAb [30B12M39] is for research use only and not for use in diagnostic or therapeutic procedures.

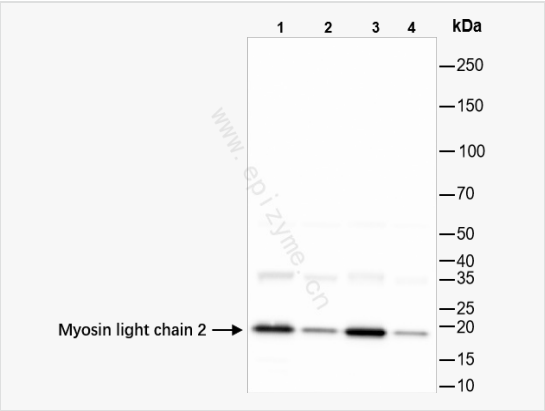
Protein Information

Synonyms	MYL2, MLC2, Myosin light chain 2, MLC-2, RLC of myosin, CMH10, MLC-2v.
Calculated MW	Calculated MW: 19 kDa; Observed MW: 19 kDa
Uniprot ID	P10916
Gene ID	4633
Background	Defects in Myosin Light Chain 2 are the cause of cardiomyopathy familial hypertrophic type 10 (CMH10) [MIM:608758]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic with mid-left ventricular chamber type 2 (MVC2) [MIM:608758]. MVC2 is a very rare variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening.
Cellular Location	Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Validation Images



Western Blot - Anti-Myosin Light Chain 2 Rabbit mAb [30B12M39]
All lanes: R013852 at 1:1,000 dilution
Lane 1: Rat heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 19 kDa
Observed band size: 19 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-Myosin Light Chain 2 Rabbit mAb [30B12M39]
All lanes: R013852 at 1:5,000 dilution
Lane 1: Rat heart whole tissue lysates
Lane 2: Rat muscle whole tissue lysates
Lane 1: Mouse heart whole tissue lysates
Lane 2: Mouse muscle whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 19 kDa
Observed band size: 19 kDa
Developed using the ECL technique (Cat. No. SQ201).