Data Sheet (Cat.No.TMAC-02730)

Anti-Myosin Light Chain 2 Antibody (9W601)

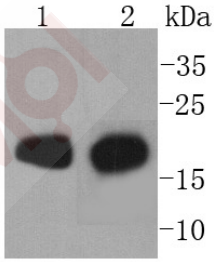
Product Details

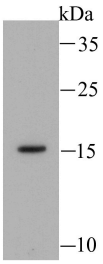
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 19 kDa.
Clone:	9W601
Purification:	ProA affinity purified

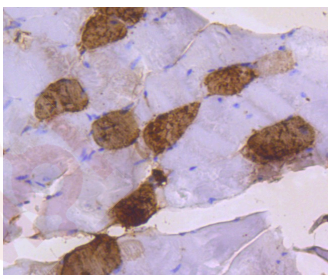
Applications

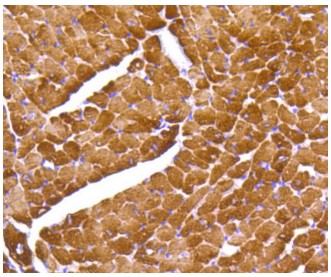
Verified Activity:

1. Western blot analysis of Myosin Light Chain 2 on different lysates using anti-Myosin Light Chain 2 antibody at 1/1,000 dilution. Positive control: Lane 1: mouse heart tissue lysate, Lane 2: rat heart tissue lysate.
2. Western blot analysis of Myosin Light Chain 2 on hybrid fish (crucian-carp) skin tissue lysate using anti-Myosin Light Chain 2 antibody at 1/500 dilution.
3. Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-Myosin Light Chain 2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Myosin Light Chain 2 antibody. Counter stained with hematoxylin.









Application:	IHC,IP,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P10916
Synonyms:	Myosin regulatory light chain 2 ventricular/cardiac muscle isoform;MLC 2v;Regulatory light chain of myosin;MYL 2;RLC of myosin;Myosin light chain 2 regulatory cardiac slow;MLC-2v; MLC2;Slow cardiac myosin regulatory light chain 2;Cardiac ventricular myosin light chain 2; MLC-2;ventricular/cardiac muscle isoform;MLRV_HUMAN;Cardiac myosin light chain-2;CMH10; Myosin regulatory light chain 2;Myosin light polypeptide 2 regulatory cardiac slow;MYL2

Research Background

Encoded by the MYL2 gene, myosin regulatory light chain 2, ventricular/cardiac muscle isoform, also designated MLC-2 or MLC2v, is part of a hexameric complex of two heavy chains and four light chains predominantly expressed in adult cardiac ventricle muscle. Myosin regulatory light chain 2 binds calcium and has been shown to be a useful molecular marker for cardiac chamber specification. The co-expression of myosin regulatory light chain 7 (MYL7) and myosin regulatory light chain 2 in the outflow tract and atrioventricular canal, together with the single expression in the atrial (MYL7) and ventricular (MYL2) myocardium, permits the delineation of their boundaries. At the amino acid level there is 96% homology between the human and mouse myosin regulatory light chain sequences. Mutations in MYL2 are correlated with mid-left ventricular chamber type hypertrophic cardiomyopathy (MVC2) as well as familial hypertrophic cardiomyopathy type 10 (CMH10).