

Anti-MYL3 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Pig,Cow,Rabbit)
Molecular Weight:	Theoretical: 22 kDa. Actual: 25 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-MYL3 Polyclonal Antibody, Unconjugated (TMAB-09156) 1: 200, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining
	2. Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-MYL3 Polyclonal Antibody, Unconjugated (TMAB-09156) 1: 200, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining
	3. Sample: Lane 1: Mouse Muscle tissue lysates Lane 2: Rat Muscle tissue lysates Primary: Anti-MYL3 (TMAB-09156) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kDa Observed band size: 25 kDa
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human MLC/Myosin light chain 3
Antigen Species: Human
Gene ID: 4634
Uniprot ID: P08590

Research Background

Myosin is the major component of thick muscle filaments, and is a long asymmetric molecule containing a globular head and a long tail. The molecule consists of two heavy chains each ~200,000 daltons, and four light chains each ~16,000 - 21,000 daltons. Activation of smooth and cardiac muscle primarily involves pathways which increase calcium and myosin phosphorylation resulting in contraction. Myosin light chain phosphatase acts to regulate muscle contraction by dephosphorylating activated myosin light chain. Human myosin light chain has clinical application as a cardiac marker.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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