Data Sheet (Cat.No.TMAB-00842)

Anti-Myosin-6/MYH6 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse,Chicken,Dog,Pig,Cow,Rabbit)
Molecular Weight:	Theoretical: 213 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-SM-MHC Polyclonal Antibody, Unconjugated (TMAB-00842) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
Application:	IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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:	KLH conjugated synthetic peptide: the middle of human MyHC-beta
Antigen Species:	Human
Gene ID:	4625
Uniprot ID:	P12883
Synonyms:	MYH7;MYHCB;MYH 6;CMD1S;MYHC B;MYH6/MYH7;MYHC A;CMH1;MyHC-beta;MGC138376;Myosin heavy chain cardiac muscle alpha isoform;MYH 7;MyHC-β;Myosin heavy polypeptide 7 cardiac muscle beta;MYH6+MYH7;MPD1;MYHC;MGC138378;Myosin heavy chain cardiac muscle beta isoform;ASD3;MyHC-alpha;heavy chain cardiac Myosin;MYHCA;MYH6;alpha MHC;MyHC-α
Biology Area:	Myosins,Autoimmune,Myosin

Research Background

Myosin heavy chains are ubiquitous Actin-based motor proteins that convert the chemical energy derived from ATP hydrolysis into the mechanical energy that drives diverse motile processes in eukaryotic cells, including cytokinesis, vesicular transport and cellular locomotion. Muscle myosin is a heterohexamer consisting of two myosin heavy chains and two associated nonidentical pairs of myosin light chains. The seven myosin heavy chain isoforms that predominate in mammalian skeletal muscles include two developmental isoforms, MHC-embryonic (MYH3) and MHC-perinatal (MYH8); three adult skeletal muscle isoforms, MHC IIa (MYH2), MHC IIb (MYH4) and MHC IIx/d (MYH1); and MHC-∫/slow (MYH7 or MHC-∫), which is also expressed in cardiac muscle. Research indicates that mutations of the MYH7 gene causes hypertrophic cardiomyopathy.

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