MYH7 Antibody

Mouse Monoclonal Antibody [Clone MYH7/9184]

Catalog No	Format	Size
4625-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4625-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4625-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

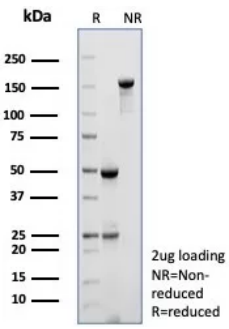
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

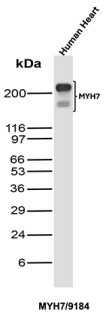
Clone	MYH7/9184
Gene Name	MYH7
Immunogen	Recombinant fragment (around aa1150-1350) of human MYH7 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	223kDa
Cellular Localization	Cytoplasm > myofibril. Thick filaments of the myofibrils.
Species Reactivity	Human
Positive Control	Skeletal muscle. Heart.

**Optimal dilution for a specific application should be determined.*

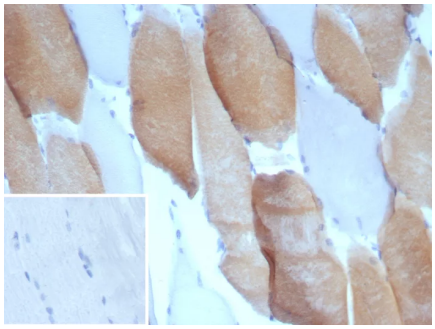
Product Images for MYH7 Antibody



SDS-PAGE Analysis of Purified MYH7 Mouse Monoclonal Antibody (MYH7/9184). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of human heart tissue lysate using Myosin Heavy Chain7 Mouse Monoclonal Antibody (MYH7/9184).



Formalin-fixed, paraffin-embedded human skeletal muscle stained with MYH7 Mouse Monoclonal Antibody (MYH7/9184). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.