



# ELK Biotechnology

## Myosin Heavy Chain Mouse mAb

Catalog NO.: EM1058

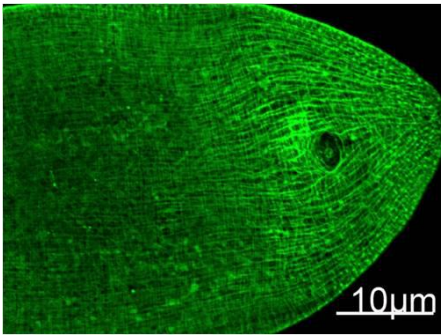
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### Overview

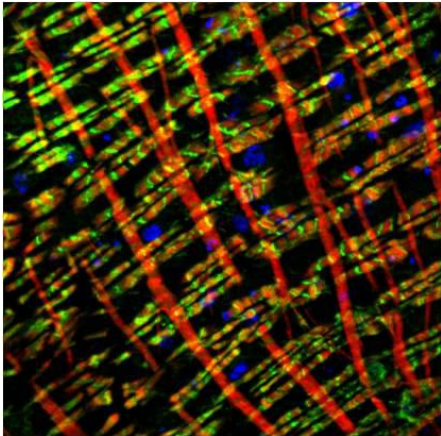
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Product name	Myosin Heavy Chain Mouse Monoclonal antibody
Source	Mouse
Applications	IHC IF
Species reactivity	Human Mouse Rat Fruit Fly Nematode
Recommended dilutions	<b>Immunohistochemistry:1/200</b> <b>Immunofluorescence:1/100</b> <b>NOTE: Optimal dilutions should be determined by the end user.</b>
Immunogen	Synthetic Peptide
Species	Human
Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.4. Store at -20° C. Avoid repeated freeze-thaw cycles.
Isotype	IgG1
Clonality	Monoclonal
Concentration	1 mg/ml
Observed band	<b>220kDa</b>
GeneID (Human)	4619
Human Swiss-Prot No.	P12882
Cellular localization	Cytoplasm Thick filament
Alternative Names	Bsh CG17927 Dm II Dme\CG17927 DmMHC DROMHC DroMII FBgn0002741 Ifm(2)2 I(2)36Ae I(2)k10423 I(2)M66 Mhc Mhc36B mMHC MRP Myo Myosin heavy chain Nup Sht sMHC Stp
Background	Muscle myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC) 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2). Cardiac MHC exists as two isoforms in humans alpha-cardiac MHC and beta-cardiac MHC. These two isoforms are expressed in different amounts in the human heart. During normal

physiology beta-cardiac MHC is the predominant form with the alpha-isoform contributing around only 7% of the total MHC. Mutations of the MHC genes are associated with several different dilated and hypertrophic cardiomyopathies.



Immunofluorescence Staining of nematode tissue with MYH mouse mAb(11C2) diluted at:100. (Provide by Tsinghua University).



Immunofluorescence double Staining of fruit fly tissue with MYH mouse mAb(11C2)(Green) and F-actin mouse mAb(red) (Provide by NIBS).