

Myosin Heavy Chain Mouse Monoclonal Antibody (11C2)

Catalog No: RA10328

Basic Information

Host species	Mouse
Applications	IHC, IF
Species Cross-Reactivity	H, M, R, Fruit Fly, Nematode
Specificity	The Myosin Heavy Chain Mouse Monoclonal antibody detects endogenous MHC proteins.
Recommended dilutions	IHC: 1:200 IF: 1:100 Optimal dilutions should be determined by the end user.

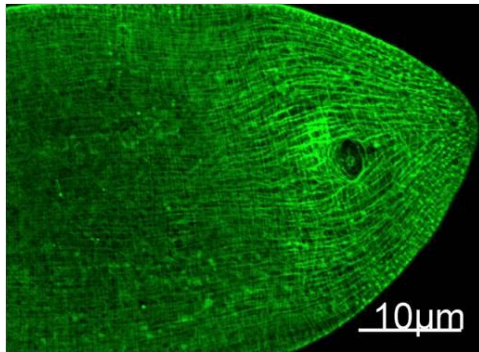
Applications

Formulation	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/ml
Clonality	Monoclonal

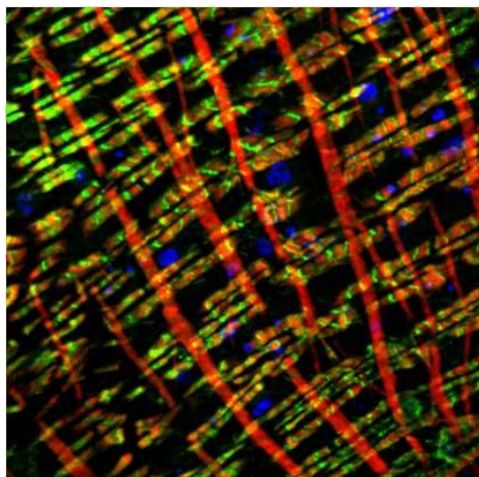
Background

Alternative Names	
Observed band	220
Human Gene ID	4619
Human Swiss-Prot Number	P12882
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.

Selected Validation Data



Immunofluorescence Staining of nematode tissue with MYH mouse mAb(11C2) diluted at 1:100. (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).