

Cardiotin Monoclonal Antibody (SR-4)

Catalog Number MA1-06310

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Pig
Host/Isotope	Mouse / IgM	<div>Tested Applications</div> <div>Dilution *</div> <div>Immunohistochemistry (Frozen) (IHC (F))</div> <div>1:25-1:50</div> <div>Western Blot (WB)</div> <div>1:20-1:250</div>	
Class	Monoclonal		
Type	Antibody		
Clone	SR-4	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Immunogen	Cardiotin purified from mouse spleen cells.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	purified		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA1-06310 detects cardiotin in human and porcine samples. MA1-06310 has sucessfully been used in Western blotting and immunohistochemistry. By Western blotting, it detects a ~300 kDa protein representing cardiotin from. The MA1-06310 immunogen is cardiotin purified from mouse spleen cells.

Background/Target Information

Cardiotin is a recently discovered, high molecular weight protein complex (~300 kDa) located in the longitudinal SR of cardiomyocytes. The cardiotin complex exists as 60 kDa and 100 kDa subunits. Both subunits contain the same amino-terminal 14 amino-acid sequence, and show high homology to human skeletal muscle alpha-actin. The tetrameric configuration of the cardiotin protein complex suggests that it exists as a transmembrane complex with the N-terminus at the cytoplasmic side of the membrane, able to interact with actin. Immunofluorescence studies colocalize cardiotin with SERCA 2a ATPase in the longitudinal sarcoplasmic reticulum (SR), although cardiotin is not expressed in junctional SR with SERCA 2.

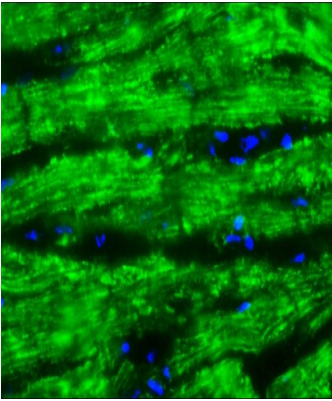
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Product Images For Cardiotin Monoclonal Antibody (SR-4)



Cardiotin Antibody (MA1-06310) in IHC (F)

Immunohistochemistry on frozen section of rabbit heart stained with Cardiotin monoclonal antibody (Product # MA1-06310).

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