



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Mouse anti Cardiotin

Catalogue number: **MUB0308P**

Clone	SR-2
Isotype	IgM
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human Swine
Application	Immunoblotting Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

## Distributors

For Purchasing Information, please contact your local distributor

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### Background

Cardiotin is a high molecular weight protein complex (300 kDa) located in the mitochondria of cardiomyocytes and skeletal muscle. The cardiotin structure exists of subunits of 60 kDa and 100 kDa, probably in a tetrameric configuration. Both subunits contain the same amino-terminal 14 amino-acid sequence, showing high homology to Human skeletal muscle  $\alpha$ -actinin. During cardiac contractile dysfunction and myocardial cell differentiation, the cardiotin distribution is affected. Compared to other structural proteins, cardiotin is one of the first to respond to insults (ischemia, fibrillation) that influence the functional status of cardiomyocytes.

### Source

SR-2 is a Mouse monoclonal IgM antibody derived by fusion of SP2/0-Ag14 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with the 100 kDa cardiotin subunit.

### Product

Each vial contains 100  $\mu$ l purified monoclonal antibody in PBS containing 0.09% sodium azide.

### Applications

SR-2 is useful for immunohistochemistry on frozen and paraffin-embedded tissue and immunoblotting. In immunoblotting assays SR-2 reacts with the 300 kDa cardiotin protein complex and its 100 kDa and 60 kDa subunits. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:100 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:50 – 1:500

for immunoblotting applications.

### **Specificity**

SR-2 reacts with cardiotin, a mitochondrion-associated protein, which is present in cardiomyocytes and skeletal muscle. SR-2 reacts with cardiomyocytes, skeletal muscle, stromal and epithelial cells as well in vivo as in vitro.

### **Storage**

Store at 4°C, or in small aliquots at -20°C.

### **References**

1. Schaart, G., Moens, L., Endert, J. M., and Ramaekers, F. C. (1997). Biochemical characterization of cardiotin, a sarcoplasmic reticulum associated protein, FEBS Lett 403, 168-72.

### **Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.