

Mouse anti-Cardiotin, clone SR-2, Purified (Monoclonal)

Clone no. SR-2

MONOSAN

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Product name	Mouse anti-Cardiotin, clone SR-2, Purified (Monoclonal)
Host	Mouse
Applications	IHC-fr (1:25-1:100), IHC-P (1:25-1:100), WB (1:50-1:500)
Species reactivity	human, swine
Conjugate	-
Immunogen	100 kDa cardiotin subunit
Isotype	IgM
Clonality	Monoclonal
Clone number	SR-2
Size	0.1 mg
Concentration	n/a
Format	-
Storage buffer	PBS with 0.09% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

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 myocard 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. SR-2 reacts with cardiomyocytes, skeletal muscle, stromal and epithelial cells as well in vivo as in vitro.

**References**

1. Schaart et al. FEBS Lett;403;168-172
2. -
3. -
4. -
5. -

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