

## Product datasheet for **BM6044P**

### Cardiotin Mouse Monoclonal Antibody [Clone ID: SR-2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	SR-2
Applications:	IHC, WB
Recommended Dilution:	<b>Immunoblotting.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin-Embedded Tissue.</b> <i>Recommended Dilutions:</i> 1/25–1/100 for immunohistochemistry with ABC as detection reagent, and 1/50–1/500 for immunoblotting.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	100 kDa Cardiotin subunit
Specificity:	This antibody 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 <i>in vivo</i> as <i>in vitro</i> . In immunoblotting assays SR-2 reacts with the 300 kDa cardiotin protein complex and its 100 kDa and 60 kDa subunits.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2–8°C for one month or (in aliquots) at –20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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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 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.