

Product datasheet for **BM6052P**

Cardiotin Mouse Monoclonal Antibody [Clone ID: SR-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SR-4
Applications:	IHC, WB
Recommended Dilution:	Immunoblotting: 1/25-1/250. Flow Cytometry: 1/25-1/50. Immunohistochemistry on Frozen Sections: 1/25-1/50 with ABC as detection reagent.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with cardiotin.
Specificity:	This antibody <i>SR-4</i> reacts with Cardiotin, a mitochondrion-associated protein, which is present in cardiomyocytes and skeletal muscle, but also in epithelial cells and tissues. <i>SR-4</i> recognizes exclusively the 300 kDa Cardiotin protein complex by Immunoblotting.
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 small aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.

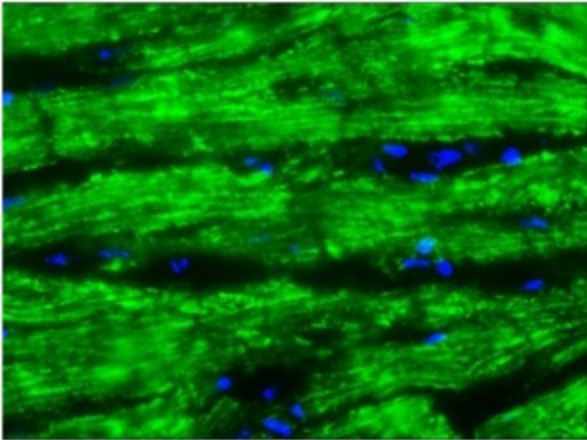


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Background:

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 α -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.

Product images:

Immunohistochemistry on Frozen Section of Rabbit heart.