

Mouse anti-Cardiotin, clone R2G, Purified (Monoclonal)

Clone no. R2G

MONOSAN

Product name	Mouse anti-Cardiotin, clone R2G, Purified (Monoclonal)
Host	Mouse
Applications	IHC-fr (1:25-1:100), IHC-P (1:25-1:100), WB
Species reactivity	human, canine, caprine, feline, hamster, monkey, mouse, rabbit, rat, xenopus,
Conjugate	-
Immunogen	Total protein extract of chicken gizzard
Isotype	IgM
Clonality	Monoclonal
Clone number	R2G
Size	100 ug
Concentration	1 mg/ml
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 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.

References

1. Schaart et al. EuroJCellBiol 1993;62:34-48
2. Schaart et al. FEBS Lett;403;168-172
3. Ausma et al. AmJ Path 1997; 151:985-997
4. Ausma et al. Circulation 2003; 107:2054-2058
5. Popchampally et al. PNAS 2004;101:9282-9285

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