

## *Mouse anti-Human Cardiotin*

Clone R2G

Cat. no. MON 3045

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### **Specificity**

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.

*Immunogen:* total protein extract of chicken gizzard.

### **Immunoglobulin type**

Mouse IgM

### **Use**

This antibody can be used for Western blotting, Immunohistochemistry frozen and paraffin sections.

### **Presentation**

100  $\mu$ g antibody solution (1 mg/ml) in phosphate buffer containing 0.09 % sodium azide.

### **References**

- Schaart, G., et al., (1993). Eur J Cell Biol 62, 34-48.
- Schaart, G., et al., (1997)., FEBS Lett 403, 168-72.
- Ausma, J., et al., (1997). Am J Pathol 151, 985-97.
- Dispersyn, G. D., et al., (2001), Cardiovasc Res 51, 230-40.
- Ausma, J., et al., (2001)., J Mol Cell Cardiol 33, 2083-94.

### **Storage**

Store antibody at 2-8°C until expiry date.

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