

Anti-Cardiotin antibody [R2G] ab8962

2 References [画像数 5](#)

製品の概要

製品名	Anti-Cardiotin antibody [R2G]
製品の詳細	Mouse monoclonal [R2G] to Cardiotin
由来種	Mouse
特異性	This antibody reacts with cardiotin, a mitochondrion-associated protein which is present in cardiomyocytes and skeletal muscle.
アプリケーション	適用あり: IHC-P, WB
種交差性	交差種: Human, Pig, Zebrafish
免疫原	Full length native protein (purified) corresponding to Chicken Cardiotin. Total protein extract of chicken gizzard
特記事項	<p>Mitochondrial membrane proteins have been shown to be involved in several cellular processes such as the regulation of apoptosis and the energy metabolism. Cardiotin antibodies, which are reactive with mitochondrial proteins, have proven to be early indicators of ischemia induced changes in the myocardium.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.09% Sodium azide Constituent: PBS
精製度	Immunogen affinity purified
ポリ/モノ	モノクローナル
クローン名	R2G

ミエローマ
アイソタイプ

Sp2/0-Ag14
IgM

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab8962の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

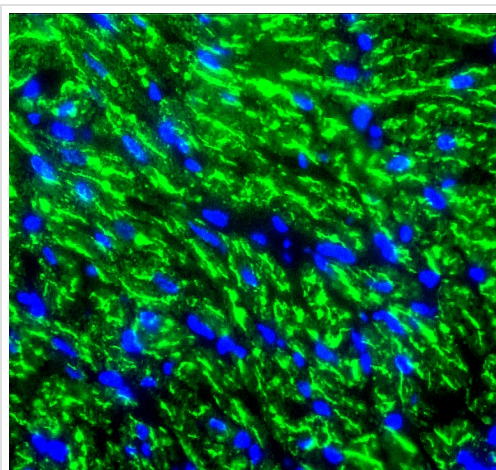
アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
WB		1/25 - 1/500.

ターゲット情報

関連性

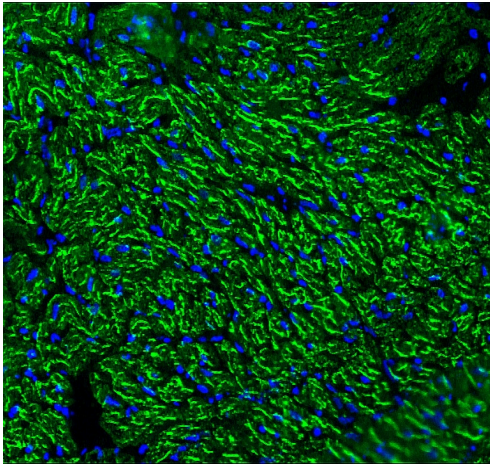
Cardiotin is a high molecular weight protein complex (300 kDa) located in the mitochondrial membrane. The cardiotin structure exists as subunits of 60 kDa and 100 kDa. Both subunits contain the same amino-terminal 14 amino-acid sequence, showing high homology to human skeletal muscle α -actinin, suggesting that the tetrameric configuration of the cardiotin protein structure is a transmembrane complex with the N-terminus at the cytoplasmic side of the membrane, able to interact with actin. During cardiac contractile dysfunction, the cardiotin distribution is affected in pathological cardiomyocytes i.e. chronic ischemic myocardium. This monoclonal antibody can be used in immunohistochemistry for the detection of a disturbed mitochondrial activity in cardiomyocytes i.e. during chronic ischemia or chronic atrial fibrillation.

画像



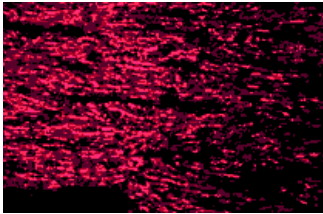
Indirect immunofluorescence analysis of swine heart cells labelling cardiotin with ab8962.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiotin antibody [R2G] (ab8962)



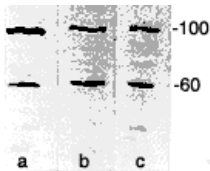
Indirect immunofluorescence analysis of swine heart cells labelling cardiomyocytes with ab8962.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiotin antibody [R2G] (ab8962)



Human atrial cardiomyocytes stained with the monoclonal cardiomyocyte antibody R2G.

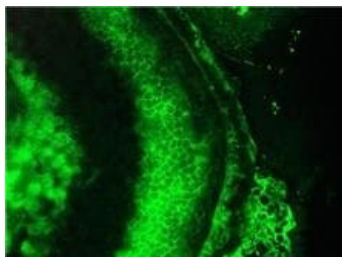
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiotin antibody [R2G] (ab8962)



Immunoblotting of the microsomal fraction of swine heart reveals the 100 kDa and 60 kDa cardiomyocyte subunits after incubation with monoclonal antibodies (a) **ab8963** clone SR-2, (b) **ab8964** clone SR-3 and (c) ab8962 clone R2G.

Western blot - Anti-Cardiotin antibody [R2G] (ab8962)

Immunoblotting of the microsomal fraction of swine heart reveals the 100 kDa and 60 kDa cardiomyocyte subunits after incubation with monoclonal antibodies (a) **ab8963** clone SR-2, (b) **ab8964** clone SR-3 and (c) ab8962 clone R2G.



Immunofluorescence staining of a 7 days old zebrafish embryo

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiotin antibody [R2G] (ab8962)

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