abcam

Product datasheet

Anti-muscle Actin antibody [EPR4791] ab109499

重组 RabMAb

2 图像

概述

产品名称	Anti-muscle Actin抗体[EPR4791]
描述	兔单克隆抗体[EPR4791] to muscle Actin
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC **不适用于:** Flow Cyt or IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human muscle Actin aa 200-300. The exact sequence is proprietary.
阳性对照	Human skeletal muscle and Human heart lysates Human colonic tissue
常规说明	

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents

This product is a recombinant rabbit monoclonal antibody.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR4791
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab109499** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 42 kDa.
IHC-P		1/100 - 1/250. Perform antigen retrieval
ICC		1/100 - 1/250.

应用说明 Is unsuitable for Flow Cyt or IP.

靶标

功能 Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

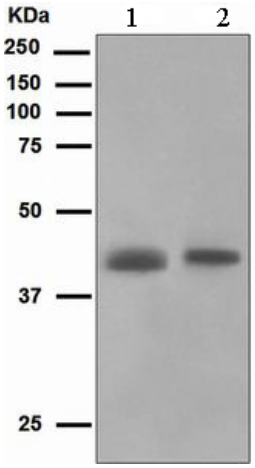
疾病相关 Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. The phenotype at histological level is variable. Some patients present areas devoid of oxidative activity containg (cores) within myofibers. Core lesions are unstructured and poorly circumscribed.
Defects in ACTA1 are a cause of myopathy, actin, congenital, with excess of thin myofilaments (MPCETM) [MIM:161800]. A congenital muscular disorder characterized at histological level by areas of sarcoplasm devoid of normal myofibrils and mitochondria, and replaced with dense masses of thin filaments. Central cores, rods, ragged red fibers, and necrosis are absent.
Defects in ACTA1 are a cause of congenital myopathy with fiber-type disproportion (CFTD) [MIM:255310]; also known as congenital fiber-type disproportion myopathy (CFTDM). CFTD is a genetically heterogeneous disorder in which there is relative hypotrophy of type 1 muscle fibers compared to type 2 fibers on skeletal muscle biopsy. However, these findings are not specific and can be found in many different myopathic and neuropathic conditions.

序列相似性 Belongs to the actin family.

翻译后修饰 Oxidation of Met-46 by MICALs (MICAL1, MICAL2 or MICAL3) to form methionine sulfoxide promotes actin filament depolymerization. Methionine sulfoxide is produced stereospecifically, but it is not known whether the (S)-S-oxide or the (R)-S-oxide is produced.

细胞定位 Cytoplasm > cytoskeleton.

图片



Western blot - Anti-muscle Actin antibody [EPR4791] (ab109499)

All lanes : Anti-muscle Actin antibody [EPR4791] (ab109499) at 1/1000 dilution

Lane 1 : Human skeletal muscle lysate

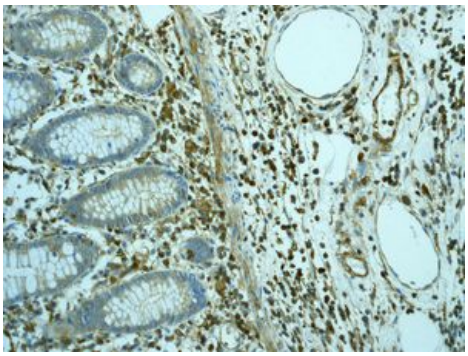
Lane 2 : Human heart lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Standard HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 42 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-muscle Actin antibody [EPR4791] (ab109499)

Immunohistochemical analysis of paraffin-embedded human colonic tissue using ab109499

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