

Anti-Calsequestrin 2 antibody [EPR4228] ab108381

重组 RabMAb

11 图像

概述

产品名称	Anti-Calsequestrin 2抗体[EPR4228]
描述	兔单克隆抗体[EPR4228] to Calsequestrin 2
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Human heart and Human skeletal muscle lysates, Human cardiac muscles and Human skeletal muscles tissues
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆

克隆编号

EPR4228

同种型

IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab108381 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 46 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

靶标

功能

Calsequestrin is a high-capacity, moderate affinity, calcium-binding protein and thus acts as an internal calcium store in muscle. The release of calcium bound to calsequestrin through a calcium release channel triggers muscle contraction. Binds 40 to 50 moles of calcium.

疾病相关

Defects in CASQ2 are the cause of catecholaminergic polymorphic ventricular tachycardia type 2 (CPVT2) [MIM:611938]; also known as stress-induced polymorphic ventricular tachycardia (VTsip). CPVT2 is an autosomal recessive form of arrhythmogenic disorder characterized by stress-induced, bidirectional ventricular tachycardia that may degenerate into cardiac arrest and cause sudden death.

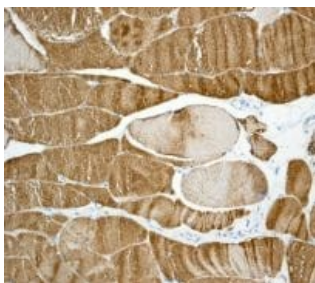
序列相似性

Belongs to the calsequestrin family.

细胞定位

Sarcoplasmic reticulum lumen. This isoform of calsequestrin occurs in the sarcoplasmic reticulum's terminal cisternae luminal spaces of cardiac and slow skeletal muscle cells.

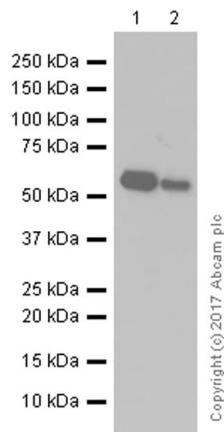
图片



Immunohistochemical analysis of paraffin-embedded Human skeletal muscles using unpurified ab108381 at a dilution of 1/100.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)



Western blot - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

All lanes : Anti-Calsequestrin 2 antibody [EPR4228] (ab108381) at 1/10000 dilution (purified)

Lane 1 : Human fetal heart lysates

Lane 2 : Human skeletal muscle lysates

Lysates/proteins at 20 µg per lane.

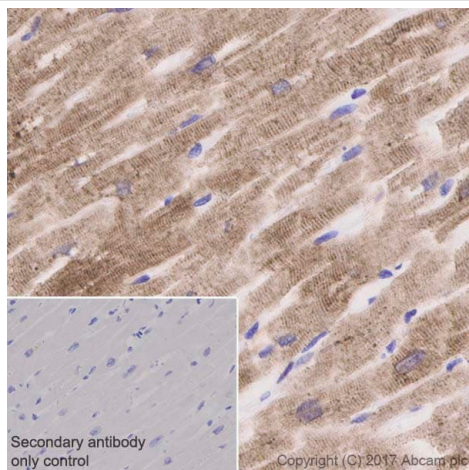
Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

Predicted band size: 46 kDa

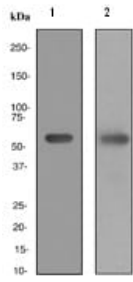
Observed band size: 55 kDa

Blocking and diluting buffer: 5% NFDm/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cardiac muscle tissue sections labeling Calsequestrin 2 with Purified ab108381 at 1:250 dilution (0.5 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

All lanes : Anti-Calsequestrin 2 antibody [EPR4228] (ab108381) at 1/1000 dilution (unpurified)

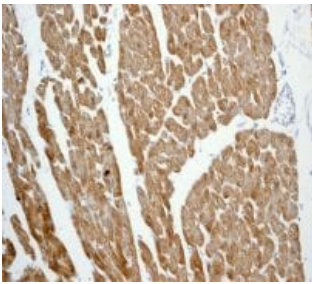
Lane 1 : Human heart lysate

Lane 2 : Human skeletal muscle lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 46 kDa

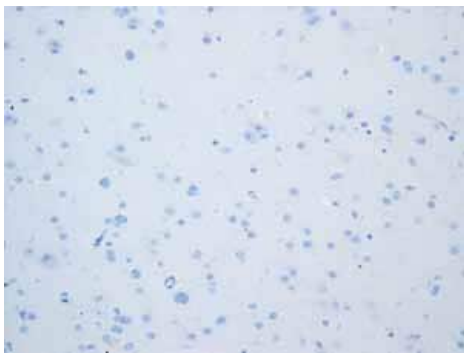
Observed band size: 55 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

Immunohistochemical analysis of paraffin-embedded Human cardiac muscles using unpurified ab108381 at a dilution of 1/100.

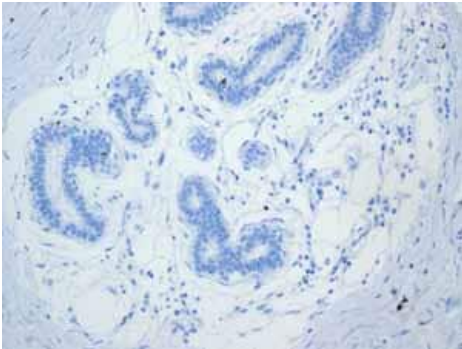
Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

Unpurified ab108381 showing negative staining in Normal brain tissue.

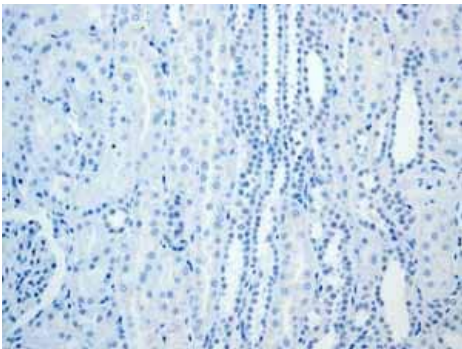
Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

Unpurified ab108381 showing negative staining in Normal breast tissue.

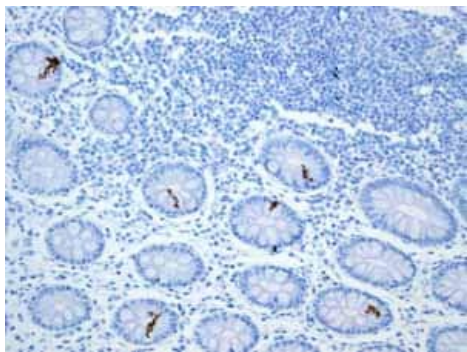
Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

Unpurified ab108381 showing negative staining in Normal kidney tissue.

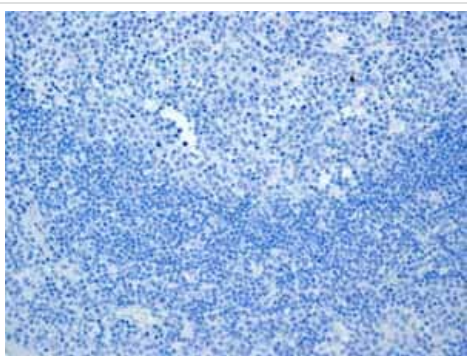
Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Unpurified ab108381 showing negative staining in Normal colon tissue.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)



Unpurified ab108381 showing negative staining in Normal tonsil tissue.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Calsequestrin 2 antibody [EPR4228] (ab108381)

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