

Product datasheet

Anti-Phospholamban antibody [2D12] ab2865

★★★★★ 8 Abreviews 30 References 4 图像

概述

产品名称	Anti-Phospholamban抗体[2D12]
描述	小鼠单克隆抗体[2D12] to Phospholamban
宿主	Mouse
经测试应用	适用于: ICC/IF, Inhibition Assay, IHC-P, IP, WB
种属反应性	与反应: Mouse, Rat, Sheep, Rabbit, Chicken, Guinea pig, Dog, Human, Pig 预测可用于: Cow
免疫原	Synthetic peptide corresponding to Dog Phospholamban aa 2-25. Sequence: DKVQYLTRSAIRRASTIEMPQAR Run BLAST with Run BLAST with
表位	This antibody recognizes an epitope between amino acid residues 9-17 of canine PLB.

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituent: PBS
纯度	Ascites
克隆	单克隆
克隆编号	2D12
同种型	IgG2a

应用

Our [Abpromise guarantee](#) covers the use of **ab2865** in the following tested applications.

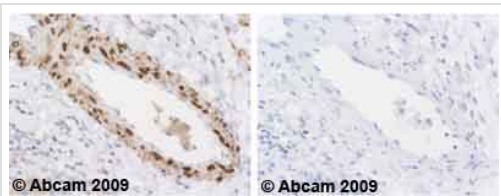
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF	★★★★★	1/10 - 1/100.
Inhibition Assay		Use at an assay dependent concentration.
IHC-P		1/200.
IP		Use at an assay dependent concentration.
WB	★★★★★	1/500 - 1/5000. This antibody detects a 25 kDa protein under non-reducing conditions representing the pentameric form of PLB and a 5 kDa protein under reducing conditions representing the monomeric form of PLB in canine cardiac extracts.

靶标

功能	Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for Ca(2+). Modulates the contractility of the heart muscle in response to physiological stimuli via its effects on ATP2A2. Modulates calcium re-uptake during muscle relaxation and plays an important role in calcium homeostasis in the heart muscle. The degree of ATP2A2 inhibition depends on the oligomeric state of PLN. ATP2A2 inhibition is alleviated by PLN phosphorylation.
组织特异性	Heart muscle (at protein level).
疾病相关	Cardiomyopathy, dilated 1P Cardiomyopathy, familial hypertrophic 18
序列相似性	Belongs to the phospholamban family.
翻译后修饰	Phosphorylation by PKA abolishes the inhibition of ATP2A2-mediated calcium uptake. Phosphorylated at Thr-17 by CaMK2, and in response to beta-adrenergic stimulation. Phosphorylation by DMPK may stimulate sarcoplasmic reticulum calcium uptake in cardiomyocytes.
细胞定位	Endoplasmic reticulum membrane. Sarcoplasmic reticulum membrane. Mitochondrion membrane. Membrane. Colocalizes with HAX1 at the endoplasmic reticulum (PubMed:17241641). Colocalizes with DMPK a the sarcoplasmic reticulum (PubMed:15598648).

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Phospholamban antibody [2D12] (ab2865)

Ab2865 staining human normal liver. Staining is localized to the cytoplasm.

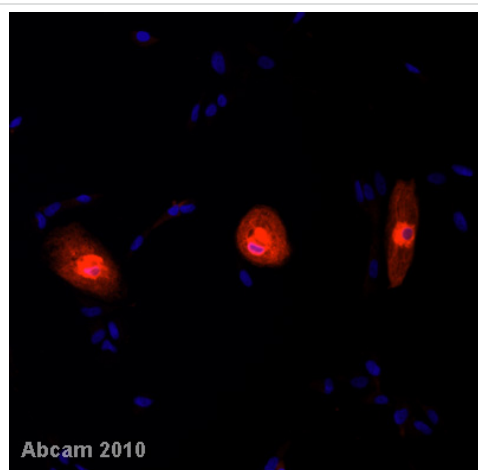
Left panel: with primary antibody at 1/1000.

Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR

buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS), then incubated with primary antibody for 20 minutes, and detected with Dako Envision Flex amplification kit for 30 minutes.

Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-Phospholamban antibody [2D12] (ab2865)

This image is from an anonymous abreview

IF/ICC image of Phospholamban antibody

(ab2865) staining hES cell derived

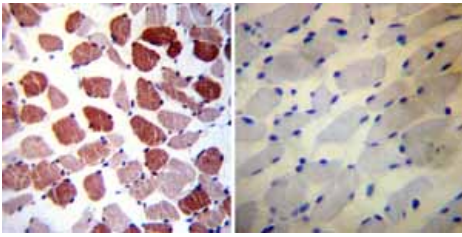
cardiomyocytes (red). The cells were fixed in

paraformaldehyde and blocked in 4% goat

serum for 1 hour at 25°C. The Phospholamban

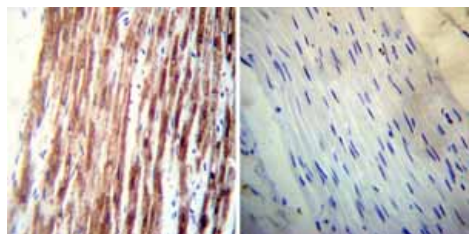
antibody was used at a concentration of

1:250, for 16 hours at 4°C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Phospholamban antibody [2D12] (ab2865)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human skeletal muscle tissues. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a mouse monoclonal antibody recognizing Phospholamban ab2865 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Phospholamban antibody [2D12] (ab2865)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human heart tissue tissues. To expose target proteins heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a mouse monoclonal antibody recognizing Phospholamban ab2865 or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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