

## Product datasheet

# Anti-Prohibitin antibody [II-14-10] ab1836

★★★★☆ 4 Abreviews 17 References 6 图像

### 概述

<b>产品名称</b>	Anti-Prohibitin抗体[II-14-10]
<b>描述</b>	小鼠单克隆抗体[II-14-10] to Prohibitin
<b>宿主</b>	Mouse
<b>经测试应用</b>	<b>适用于:</b> ICC/IF, IHC-P, IHC-Fr, IP, WB, Flow Cyt
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Human, Pig
<b>免疫原</b>	BALB/C mice were injected with purified recombinant rat prohibitin protein.
<b>阳性对照</b>	Human Heart
<b>常规说明</b>	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody <a href="#">ab75771</a> as a replacement.

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	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.
<b>存储溶液</b>	Preservative: 0.05% Sodium Azide Constituents: 1% BSA
<b>纯度</b>	IgG fraction
<b>克隆</b>	单克隆
<b>克隆编号</b>	II-14-10
<b>同种型</b>	IgG1

### 应用

Our [Abpromise guarantee](#) covers the use of **ab1836** in the following tested applications.

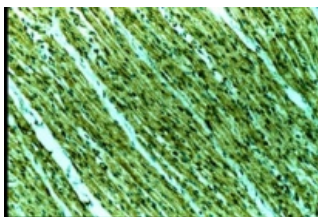
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
IHC-P	★★★★☆	1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. ABC method.
IHC-Fr		1/50 - 1/100. ABC method.
IP		Use at an assay dependent concentration.
WB	★★★★☆	1/100. (see Abreview).
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## 靶标

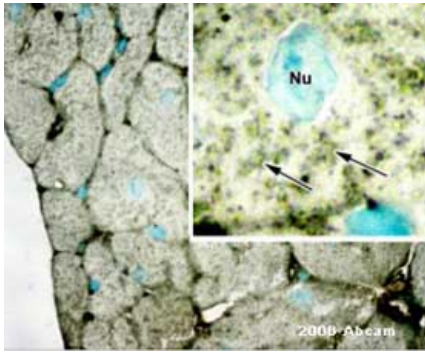
<b>功能</b>	Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging.
<b>组织特异性</b>	Widely expressed in different tissues.
<b>序列相似性</b>	Belongs to the prohibitin family.
<b>发展阶段</b>	Levels of expression in fibroblasts decrease heterogeneously during cellular aging.
<b>细胞定位</b>	Mitochondrion inner membrane.

## 图片



Formalin fixed paraffin embedded human heart stained with Prohibitin antibody ab1836.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Prohibitin antibody [11-14-10] - Mitochondrial Marker (ab1836)

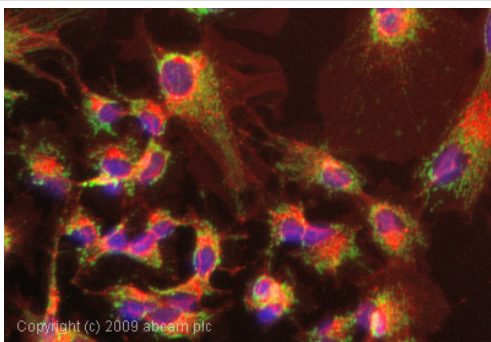


Immunohistochemistry (Formalin-fixed paraffin-embedded sections) - Prohibitin antibody [Il-14-10] - Mitochondrial Marker (ab1836)

ab1836 at a 1/100 dilution staining mouse Cardiac muscle tissue sections by Immunohistochemistry (Formalin-fixed paraffin-embedded sections). Following heat mediated antigen retrieval the antibody was incubated with the tissue for 12 hours. Bound antibody was detected with a HRP conjugated anti-mouse antibody.

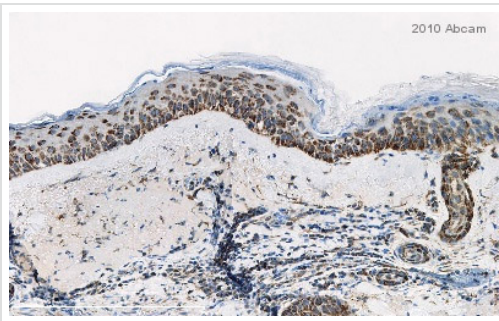
The picture shown is a transverse section of mouse ventricular wall; from TEM studies the distribution of mitochondria among the myofibrils is well-established, and so in this 2-um-thick section there exists both minimal superposition as well as a staining pattern which is consistent with what is expected for cardiac mitochondrial patterns (arrows in the inset indicate groups of prohibitin-positive mitochondria).

This image is courtesy of an Abreview submitted by **Mike Forbes** on **29 March 2006**.



Immunocytochemistry/ Immunofluorescence - Prohibitin antibody [Il-14-10] - Mitochondrial Marker (ab1836)

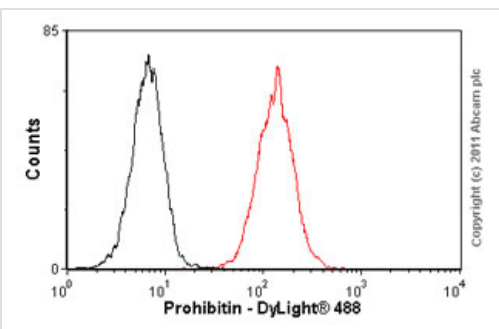
ICC/IF image of ab1836 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab1836, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti- IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Prohibitin antibody [IL-14-10] - Mitochondrial Marker (ab1836)

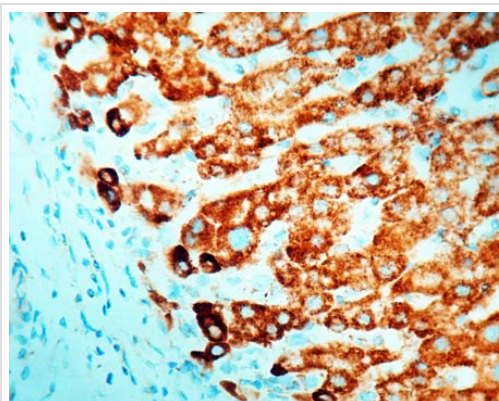
This image is courtesy of an anonymous Abreview

ab1836 staining Prohibitin in normal human skin tissue sections by IHC-P (formaldehyde-fixed paraffin-embedded sections). Tissue samples were fixed with formaldehyde and blocked with 10% serum for 30 minutes at 21°C; antigen retrieval was by heat mediation in Citric buffer (pH6). The sample was incubated with primary antibody (1/200 in TBS + 1% BSA) at 21°C for 1 hour. An undiluted HRP-conjugated Goat polyclonal to mouse IgG was used as secondary antibody.



Flow Cytometry-Prohibitin antibody [IL-14-10] - Mitochondrial Marker(ab1836)

Overlay histogram showing HeLA cells stained with ab1836 (red line). The cells were fixed with 100% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab1836, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was Mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human hepatocellular carcinoma tissue, staining Prohibitin with ab1836. Staining was detected using DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prohibitin antibody [IL-14-10] - Mitochondrial Marker (ab1836)

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