

### Anti-Peroxiredoxin 3/PRDX3 antibody ab73349

敲除验证

★★★★★ 7 Abreviews 35 References 4 图像

#### 概述

产品名称	Anti-Peroxiredoxin 3/PRDX3抗体
描述	兔多克隆抗体to Peroxiredoxin 3/PRDX3
宿主	Rabbit
特异性	Replenishment batches of our polyclonal antibody, ab73349 are tested in WB. Previous batches were additionally validated in ICC/IF and IHC-P. These applications are still expected to work and are covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, <a href="#">ab129206</a> .
经测试应用	适用于: IHC-P, ICC/IF, WB
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Chicken, Cow, Xenopus laevis, Chimpanzee, Zebrafish, Orangutan 
免疫原	Synthetic peptide corresponding to Human Peroxiredoxin 3/PRDX3 aa 200 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab85815</a> )
阳性对照	Recombinant human Peroxiredoxin 3/PRDX3 protein ( <a href="#">ab85559</a> ) can be used as a positive control in WB. This antibody gave a positive signal in the following lysates: Human, Mouse and Rat Liver, Rat Ovary. ICC/IF: HeLa cells
常规说明	<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&amp;As</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 or -80°C. Avoid freeze / thaw cycle.

存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration &lt; 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

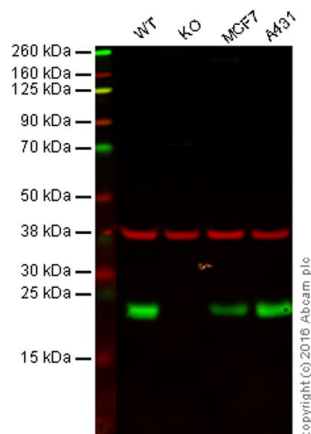
Abpromise™承诺保证使用ab73349于以下的经测试应用

“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
IHC-P	★★★★★ (2)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 5 µg/ml.
WB	★★★★☆ (4)	Use a concentration of 1 µg/ml. Detects a band of approximately 23 kDa (predicted molecular weight: 28 kDa).

靶标	
功能	Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.
序列相似性	<p>Belongs to the ahpC/TSA family.</p> <p>Contains 1 thioredoxin domain.</p>
细胞定位	Mitochondrion.

图片	
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Western blot - Anti-Peroxiredoxin 3/PRDX3 antibody (ab73349)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

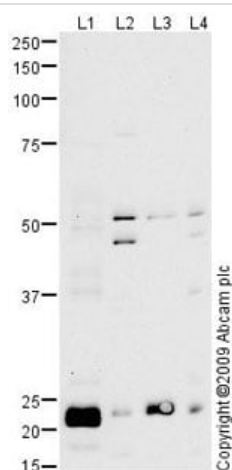
**Lane 2:** Peroxiredoxin 3/PRDX3 knockout HAP1 cell lysate (20 µg)

**Lane 3:** MCF7 cell lysate (20 µg)

**Lane 4:** A431 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab73349 observed at 24 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab73349 was shown to specifically react with Peroxiredoxin 3/PRDX3 in wild-type HAP1 cells. No band was observed when Peroxiredoxin 3/PRDX3 knockout samples were examined. Wild-type and Peroxiredoxin 3/PRDX3 knockout samples were subjected to SDS-PAGE. ab73349 and **ab8245** (loading control to GAPDH) were diluted at 1 µg/ml and 1/10,000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Peroxiredoxin 3/PRDX3 antibody (ab73349)

**All lanes :** Anti-Peroxiredoxin 3/PRDX3 antibody (ab73349) at 1 µg/ml

**Lane 1 :** Human liver tissue lysate - total protein (**ab29889**)

**Lane 2 :** Liver (Rat) Tissue Lysate

**Lane 3 :** Ovary (Rat) Tissue Lysate

**Lane 4 :** Liver (Mouse) Tissue Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

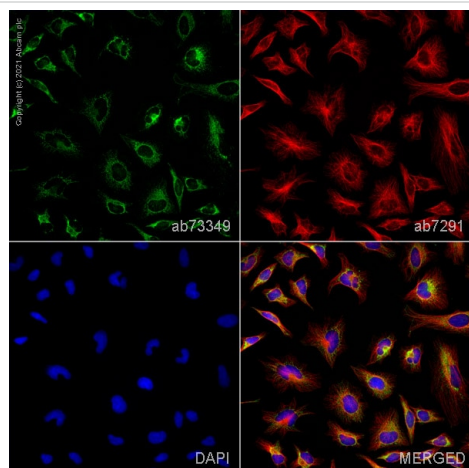
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 28 kDa

**Observed band size:** 23 kDa

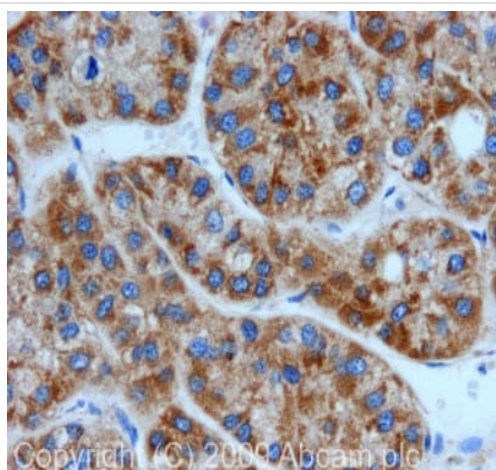
**Additional bands at:** 45 kDa, 52 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-Peroxiredoxin 3/PRDX3 antibody (ab73349)

ab73349 staining Peroxiredoxin 3/PRDX3 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab73349 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 3/PRDX3 antibody (ab73349)

IHC image of Peroxiredoxin 3/PRDX3 staining in human liver carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab73349, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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