abcam

Product datasheet

Anti-Peroxiredoxin 2/PRP antibody ab59539

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概述

产品名称	Anti-Peroxiredoxin 2/PRP**抗体**
描述	**兔多克隆抗体**to Peroxiredoxin 2/PRP
宿主	Rabbit
特异性	ab59539 reacts with Peroxiredoxin 2/PRP.
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Human **预测可用于:** Mouse, Cow, Cynomolgus monkey, Chinese hamster, Orangutan
免疫原	Synthetic peptide corresponding to Human Peroxiredoxin 2/PRP aa 20-31. Sequence: VVDGAFKEVKLS Run BLAST with Run BLAST with
阳性对照	WB: HeLa, whole tissue lysate prepared from murine liver. ICC: HeLa cells. IHC-P: Human colon tissue.
常规说明	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. 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&As

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: 0.02% Thimerosal (merthiolate) Constituent: Whole serum
纯度	Whole antiserum
克隆	**多克隆**

同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab59539于以下的经测试应用

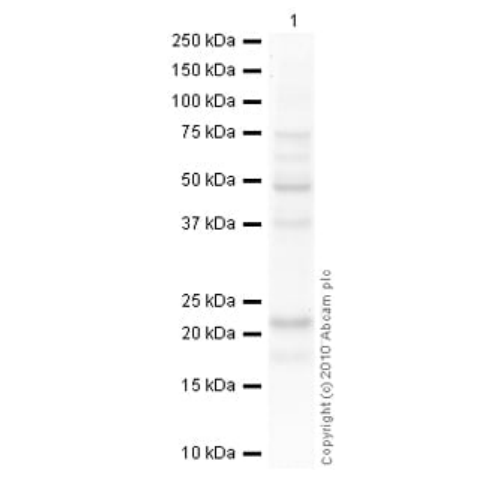
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/50 - 1/100.
WB	★★★☆☆ (5)	1/1000 - 1/4000. Predicted molecular weight: 22 kDa.
IHC-P		Use at an assay dependent concentration.

靶标

功能	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system. It is not able to receive electrons from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2).
序列相似性	Belongs to the ahpC/TSA family. Contains 1 thioredoxin domain.
细胞定位	Cytoplasm.

图片



Western blot - Anti-Peroxiredoxin 2/PRP antibody (ab59539)

Anti-Peroxiredoxin 2/PRP antibody (ab59539) at 1/500 dilution + HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

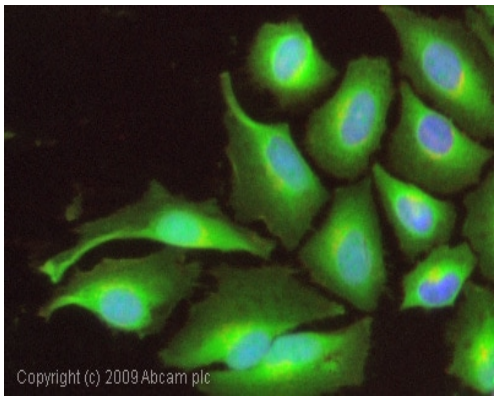
Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

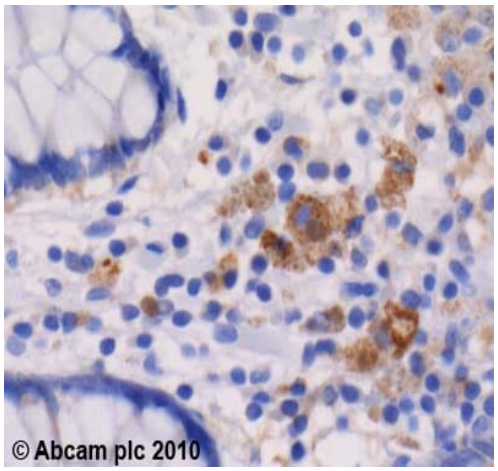
Predicted band size: 22 kDa
Observed band size: 22 kDa
Additional bands at: 37 kDa, 49 kDa, 75 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds



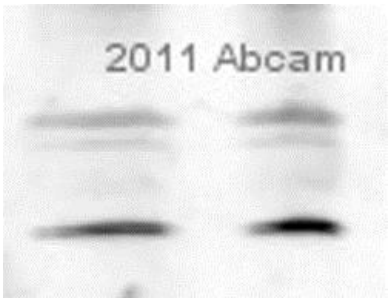
Immunocytochemistry/ Immunofluorescence - Anti-Peroxiredoxin 2/PRP antibody (ab59539)

ICC/IF image of ab59539 stained HeLa cells. The cells were 4% formaldehyde 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 (**ab39539**, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit 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) - Anti-Peroxiredoxin 2/PRP antibody (ab59539)

ab59539 (1/2000) staining peroxiredoxin 2/PRP in human colon using an automated system (DAKO Autostainer Plus). Using this protocol there is strong cytoplasmic staining of submucosal infiltrating leukocytes.
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% H_2O_2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min 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, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Western blot - Anti-Peroxiredoxin 2/PRP antibody (ab59539)

Image courtesy of an anonymous Abreview.

All lanes : Anti-Peroxiredoxin 2/PRP antibody (ab59539) at 1/5000 dilution

All lanes : Whole tissue lysate prepared from murine liver

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : IRDye 680 conjugated goat anti-rabbit polyclonal at 1/5000 dilution

Predicted band size: 22 kDa

Observed band size: 22,45 kDa

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