


Anti-NQO1 antibody [A180] ab28947

敲除验证

★★★★☆ **12 Abreviews** **132 References** 10 图像

概述

产品名称	Anti-NQO1抗体[A180]
描述	小鼠单克隆抗体[A180] to NQO1
宿主	Mouse
经测试应用	适用于: Sandwich ELISA, ICC/IF, WB, IHC-P, Flow Cyt (Intra)
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Dog, Monkey 
免疫原	Recombinant full length protein corresponding to Human NQO1.
阳性对照	WB: HAP1 and HepG2 whole cell lysates; human kidney tissue lysate. ICC/IF: HepG2 cells. Flow Cyt (Intra): HeLa cells. IHC-P: FFPE human breast adenocarcinoma and pancreas adenocarcinoma tissue sections.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. 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>

Some batches contain 6.97% L-Arginine as a stabilizing agent. For lot-specific buffer information,

	please contact our Scientific Support team.
纯度	Protein G purified
克隆	单克隆
克隆编号	A180
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab28947于以下的经测试应用

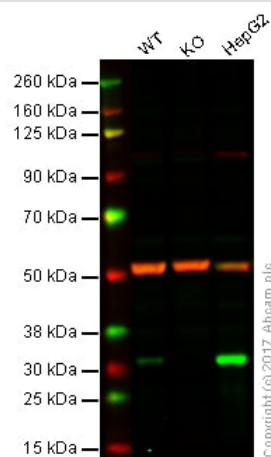
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Sandwich ELISA		1/500. Can be used as capture antibody in conjunction with ab34173 as detection antibody.
ICC/IF	★★★★★ (2)	Use a concentration of 5 µg/ml.
WB	★★★★☆ (4)	Use a concentration of 1 µg/ml. Predicted molecular weight: 30 kDa.
IHC-P	★★★★★ (4)	Use at an assay dependent concentration.
Flow Cyt (Intra)		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinones involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis.
序列相似性	Belongs to the NAD(P)H dehydrogenase (quinone) family.
细胞定位	Cytoplasm.

图片



Western blot - Anti-NQO1 antibody [A180]
(ab28947)

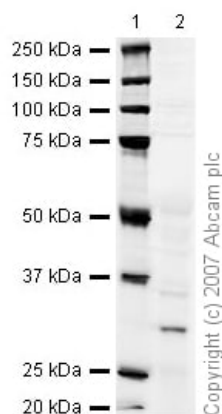
Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

Lane 2: NQO1 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HepG2 whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - ab28947 observed at 31 kDa. Red - loading control, [ab176560](#), observed at 50 kDa.

ab28947 was shown to specifically react with NQO1 in wild-type HAP1 cells as signal was lost in NQO1 knockout cells. Wild-type and NQO1 knockout samples were subjected to SDS-PAGE. ab28947 and [ab176560](#) (Rabbit anti-alpha Tubulin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed [ab216772](#) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed [ab216777](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-NQO1 antibody [A180]
(ab28947)

Lane 1 : Marker

Lane 2 : Anti-NQO1 antibody [A180] (ab28947) at 1 µg/ml

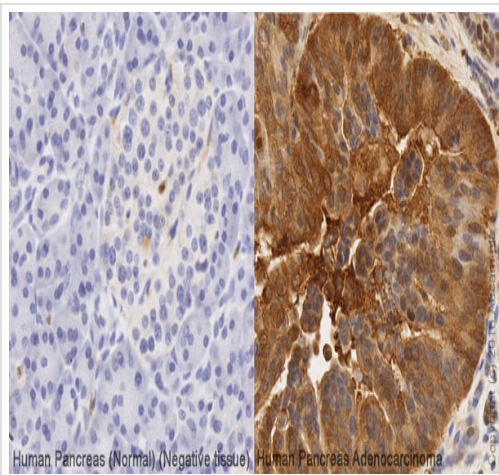
Lane 2 : Kidney (Human) Tissue Lysate ([ab7920](#)) at 20 µg

Secondary

Lane 2 : IRDye 680 Conjugated Goat Anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 30 kDa

Observed band size: 30 kDa

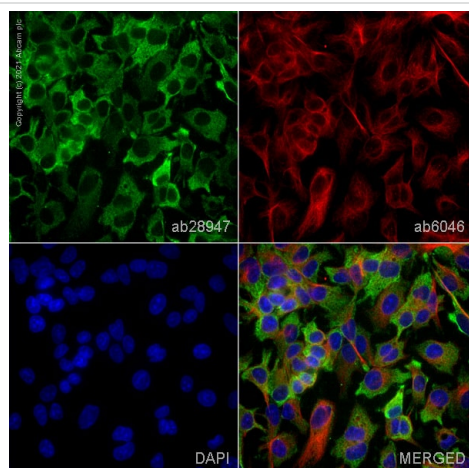


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NQO1 antibody [A180] (ab28947)

IHC image of NQO1 staining in sections of formalin fixed paraffin embedded normal human pancreas* (left) and human pancreas adenocarcinoma* (right), 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 ab28947, 0.1 µg/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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

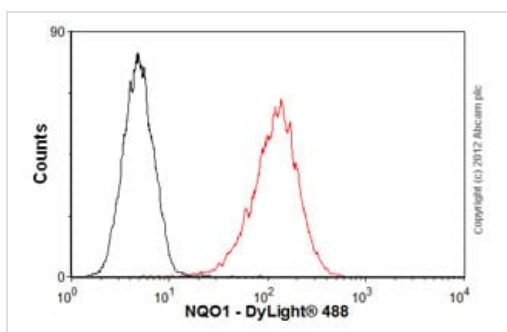
**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



Immunocytochemistry/ Immunofluorescence - Anti-NQO1 antibody [A180] (ab28947)

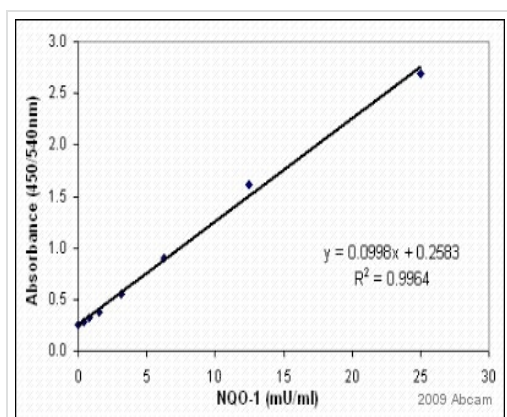
ab28947 staining NQO1 in HepG2 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab28947 at 5 µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) 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.



Flow Cytometry (Intracellular) - Anti-NQO1 antibody [A180] (ab28947)

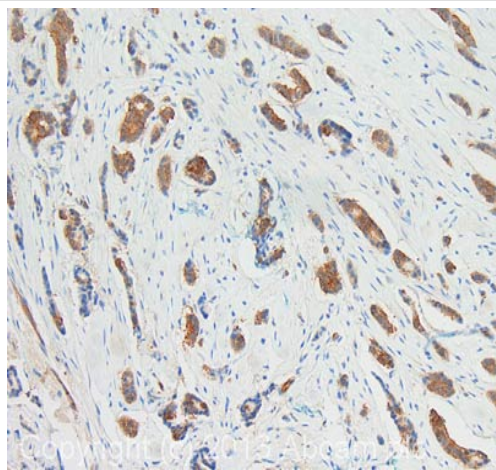
Overlay histogram showing HeLa cells stained with ab28947 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab28947, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was goat **anti-mouse DyLight® 488** (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/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Sandwich ELISA - Anti-NQO1 antibody [A180] (ab28947)

This image is courtesy of an anonymous Abreview

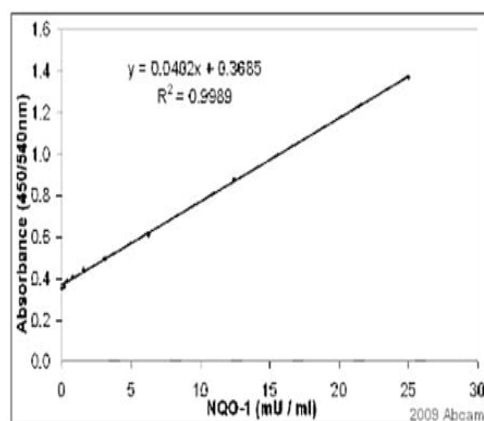
Sandwich ELISA for the detection of NQO1. ab28947 (1/500) was used as the capture antibody. A rabbit polyclonal raised againsts the C-terminal end of NQO1 was used for the detection. Please refer to abreview for further experimental details.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NQO1 antibody [A180] (ab28947)

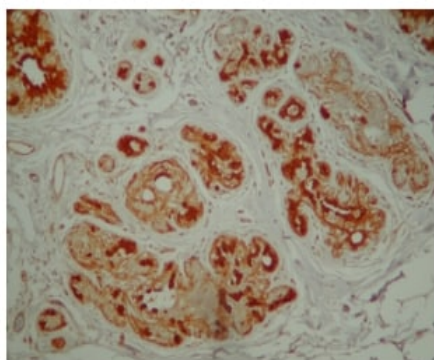
IHC image of NQO1 staining in human breast adenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab28947, 0.1µg/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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Sandwich ELISA - Anti-NQO1 antibody [A180] (ab28947)

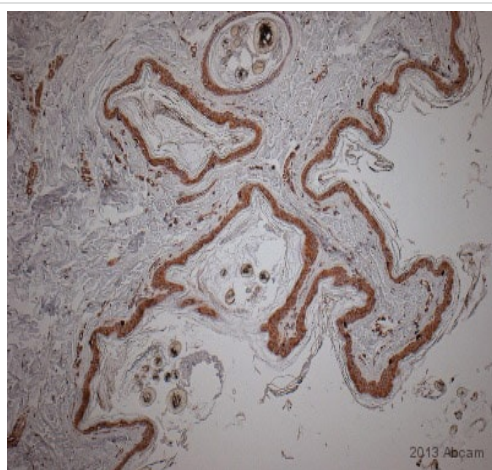
Sandwich ELISA for the detection of NQO1, using ab28947 (1/500) as the capture antibody and **ab34173** (1/1000) for the detection.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NQO1 antibody [A180] (ab28947)

Human breast cancer tissue stained with ab28947 NQO1 antibody.



2013 Abcam

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NQO1 antibody [A180] (ab28947)

This image is courtesy of an anonymous Abreview

Immunohistochemical analysis of dog skin tissue, staining NQO1 with ab28947.

Tissue was fixed with formaldehyde and antigen retrieval was by heat mediation in a citrate buffer (pH 6). Samples were incubated with primary antibody (1/175 in BSA in TBS) for 45 minutes.

ab98784 rabbit polyclonal to anti-mouse HRP (IgG (1/500) was used as the secondary antibody.

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