

Anti-NQO1 antibody [EPR3309] ab80588

敲除验证
重组
RabMAb

★★★★☆
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概述

产品名称	Anti-NQO1抗体[EPR3309]
描述	兔单克隆抗体[EPR3309] to NQO1
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IP, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human NQO1 (N terminal). The exact sequence is proprietary.
阳性对照	WB: SH-SY5Y, MCF7, HeLa and A549 cell lysates, rat brain tissue lysate. ICC/IF: MCF-7 cells. IP: HeLa cell lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3309
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab80588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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB	★★★★★ (4)	1/10000 - 1/150000. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa).
IP		1/30 - 1/50.
ICC/IF		1/50 - 1/80.

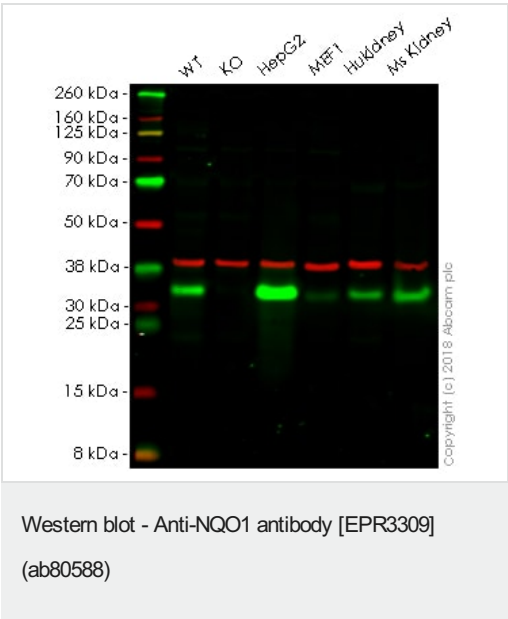
靶标

功能 The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinons 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



All lanes : Anti-NQO1 antibody [EPR3309] (ab80588) at 1 µg/ml

Lane 1 : Wild-type HAP1 whole cell lysate at 40 µg

Lane 2 : NQO1 knockout HAP1 whole cell lysate at 40 µg

Lane 3 : HepG2 whole cell lysate at 20 µg

Lane 4 : MEF1 whole cell lysate at 20 µg

Lane 5 : Human Kidney tissue lysate at 20 µg

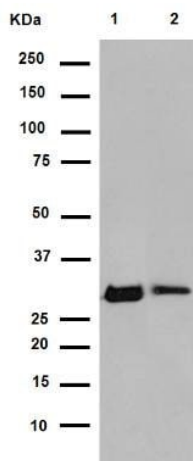
Lane 6 : Mouse Kidney tissue lysate at 20 µg

Predicted band size: 31 kDa

Lanes 1 - 6: Merged signal (red and green). Green - ab80588 observed at 31 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab80588 was shown to recognize NQO1 in wild-type HAP1 cells as signal was lost at the expected MW in NQO1 knockout cells. Wild-

type and NQO1 knockout samples were subjected to SDS-PAGE. Ab80588 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-NQO1 antibody [EPR3309] (ab80588)

All lanes : Anti-NQO1 antibody [EPR3309] (ab80588) at 1/25000 dilution (purified)

Lane 1 : SH-SY5Y cell lysate

Lane 2 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

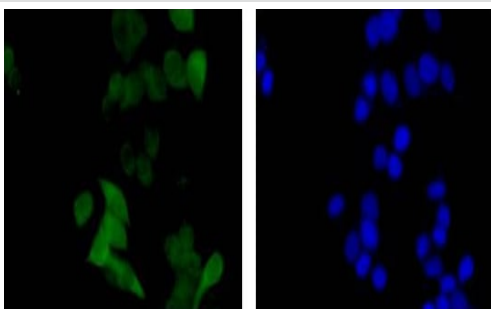
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 31 kDa

Observed band size: 31 kDa

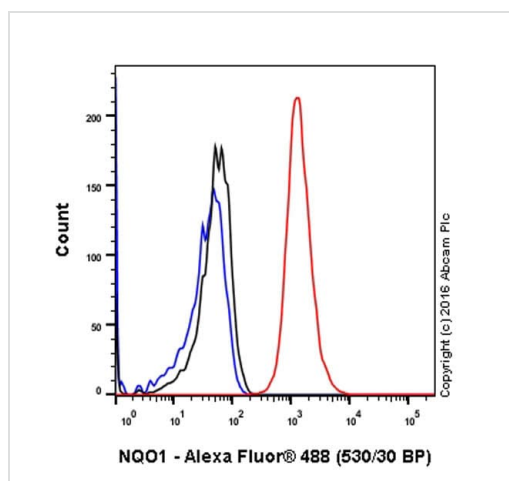
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Immunocytochemistry/ Immunofluorescence - Anti-NQO1 antibody [EPR3309] (ab80588)

Immunocytochemistry/Immunofluorescence analysis of MCF-7 cells labelling NQO1 (green) with purified ab80588 at 1/80. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/200) was used as the secondary antibody. Counterstained with DAPI (blue).

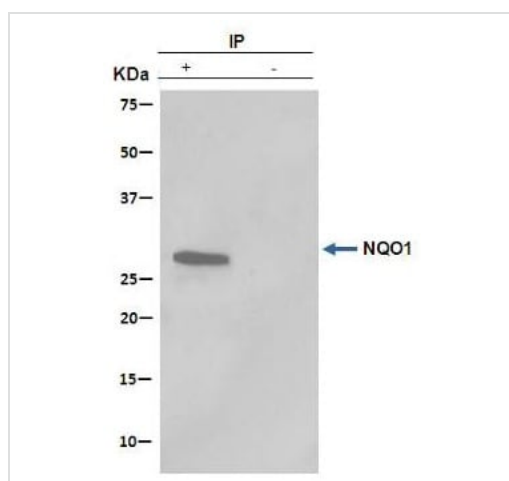


Flow Cytometry (Intracellular) - Anti-NQO1 antibody
[EPR3309] (ab80588)

ab80588 staining NQO1 in the human cell line MCF-7 (human breast carcinoma) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde, permeabilized with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/20. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isotype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

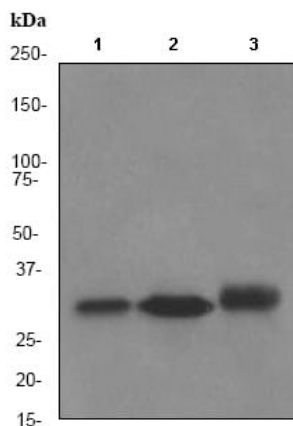


Immunoprecipitation - Anti-NQO1 antibody
[EPR3309] (ab80588)

ab80588 (purified) at 1/50 immunoprecipitating NQO1 in HeLa cell lysate (Lane 1). Lane 2 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-NQO1 antibody [EPR3309] (ab80588)

All lanes : Anti-NQO1 antibody [EPR3309] (ab80588) at 1/50000 dilution (unpurified)

Lane 1 : MCF7

cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : A549

cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 31 kDa

Observed band size: 31 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-NQO1 antibody [EPR3309] (ab80588)

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