


### Anti-NQO1 antibody ab34173

KO 評価済

★★★★★ 9 Abreviews 151 References 画像数 4

#### 製品の概要

製品名	Anti-NQO1 antibody
製品の詳細	Rabbit polyclonal to NQO1
由来種	Rabbit
アプリケーション	適用あり: ICC, WB
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat, Guinea pig 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Wild-type HAP1 whole cell lysate. HepG2 and MCF7 whole cell lysate. Human Kidney Whole Tissue Lysate. Recombinant human NQO1 protein. ICC: HeLa cells.
特記事項	<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>

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS  Batches of this product that have a concentration < 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.
精製度	Immunogen affinity purified

ポリ/モノ  
アイソタイプ

ポリクローナル  
IgG

## アプリケーション

**The Abpromise guarantee**      Abpromise保証は、次のテスト済みアプリケーションにおけるab34173の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC		Use a concentration of 1 - 5 µg/ml.
WB	★★★★☆ (5)	Use a concentration of 1 µg/ml. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa).

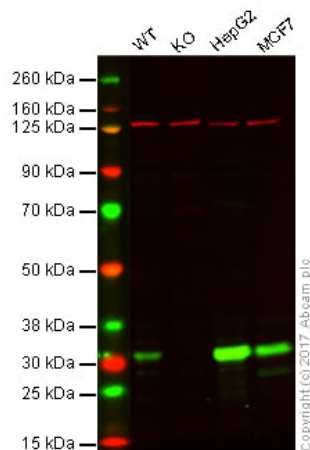
## ターゲット情報

<b>機能</b>	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.
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**配列類似性** Belongs to the NAD(P)H dehydrogenase (quinone) family.

**細胞内局在**                      Cytoplasm.

## 画像



Western blot - Anti-NQO1 antibody (ab34173)

**Lane 1:** Wild-type HAP1 whole cell lysate (20  $\mu$ g)

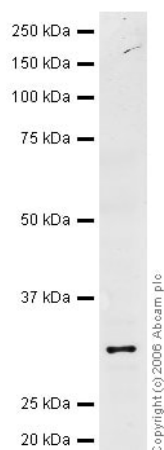
**Lane 2:** NQO1 knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HepG2 whole cell lysate (20  $\mu$ g)

**Lane 4:** MCF7 whole cell lysate (20  $\mu$ g)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab34173 observed at 31 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab34173 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. ab34173 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1 µg/ml 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 (ab34173)

Anti-NQO1 antibody (ab34173) at 1 µg/ml + Human Kidney Whole Tissue Lysate at 20 µg

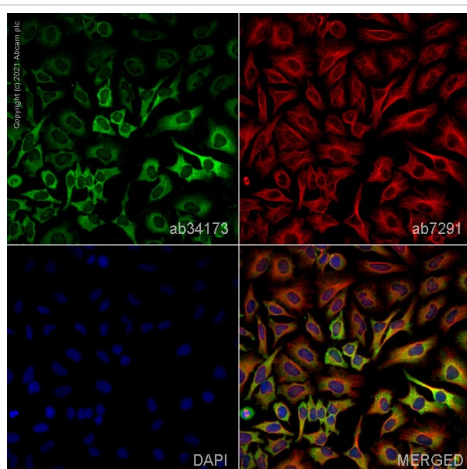
### Secondary

IRDye 680 Conjugated Goat Anti Rabbit IgG (H&L) at 1/15000 dilution

Performed under reducing conditions.

**Predicted band size:** 31 kDa

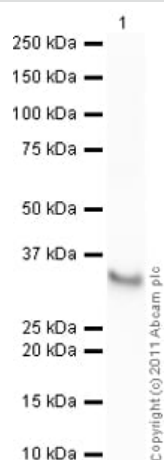
**Observed band size:** 31 kDa



Immunocytochemistry - Anti-NQO1 antibody (ab34173)

ab34173 staining NQO1 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 ab34173 at 1 µg/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.



Western blot - Anti-NQO1 antibody (ab34173)

Anti-NQO1 antibody (ab34173) at 1 µg/ml + Recombinant human NQO1 protein (**ab59663**) at 0.01 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:** 31 kDa

**Exposure time:** 30 seconds

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