




Product datasheet

Anti-NQO1 antibody ab2346

[95 References](#) [5 Images](#)

Overview

Product name	Anti-NQO1 antibody
Description	Goat polyclonal to NQO1
Host species	Goat
Specificity	This products is expected to recognize all three reported isoforms (NP_000894.1; NP_001020604.1; NP_001020605.1)
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Rat, Human, Pig Predicted to work with: Dog 
Immunogen	Synthetic peptide corresponding to Human NQO1 aa 267-274 (C terminal). Sequence: C-SIPTDNQIKARK (Peptide available as ab22904)  Run BLAST with  Run BLAST with
Positive control	WB: U251, HepG2, Human Kidney, Human Lung, Human Duodenum, Rat Kidney, Rat Lung and Rat Duodenum lysates. IHC-P: Human Kidney tissue. ICC/IF: HepG2 cells.
General notes	Principal Names – NQO1; NAD(P)H dehydrogenase, quinone 1; DTD; QR1; DHQU; DIA4; NMOR1; NMORI; diaphorase-4; diaphorase (NADH/NADPH); diaphorase (NADH/NADPH) (cytochrome b-5 reductase); NAD(P)H:menadione oxidoreductase 1, dioxin-inducible 1. Official Gene Symbol - NQO1. GenBank Accession Number – NP_000894. LocusLink ID - 1728. Gene Ontology terms - cytoplasm; xenobiotic metabolism; detoxification response; cytochrome b5 reductase; nitric oxide biosynthesis; NAD(P)H dehydrogenase (quinone); synaptic transmission, cholinergic. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

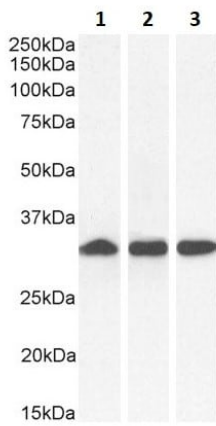
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab2346 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 10 µg/ml.
WB		Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 30-32 kDa. Primary incubation for 1 hour at room temperature.
IHC-P		Use a concentration of 2 - 4 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	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.
Sequence similarities	Belongs to the NAD(P)H dehydrogenase (quinone) family.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-NQO1 antibody (ab2346)

All lanes : Anti-NQO1 antibody (ab2346) at 0.3 µg/ml

Lane 1 : Rat Kidney lysate in RIPA buffer

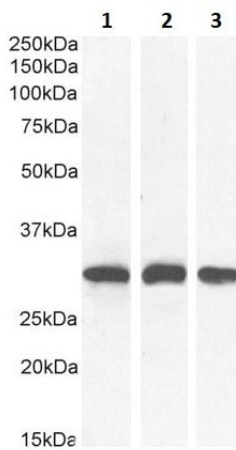
Lane 2 : Rat Lung lysate in RIPA buffer

Lane 3 : Rat Duodenum lysate in RIPA buffer

Lysates/proteins at 35 µg per lane.

Observed band size: 30-32 kDa

Detected by chemiluminescence.



Western blot - Anti-NQO1 antibody (ab2346)

All lanes : Anti-NQO1 antibody (ab2346) at 0.3 µg/ml

Lane 1 : Human Kidney lysate in RIPA buffer

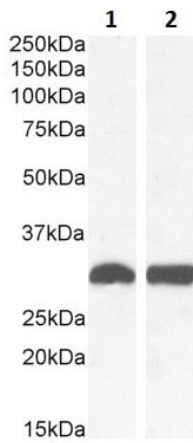
Lane 2 : Human Lung lysate in RIPA buffer

Lane 3 : Human Duodenum lysate in RIPA buffer

Lysates/proteins at 35 µg per lane.

Observed band size: 30 kDa

Detected by chemiluminescence.



Western blot - Anti-NQO1 antibody (ab2346)

All lanes : Anti-NQO1 antibody (ab2346) at 0.3 µg/ml

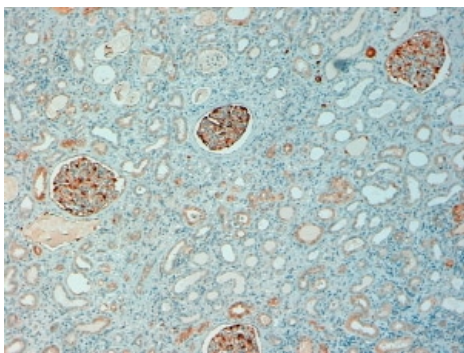
Lane 1 : U251 cell lysate in RIPA buffer

Lane 2 : HepG2 cell lysate in RIPA buffer

Lysates/proteins at 35 µg per lane.

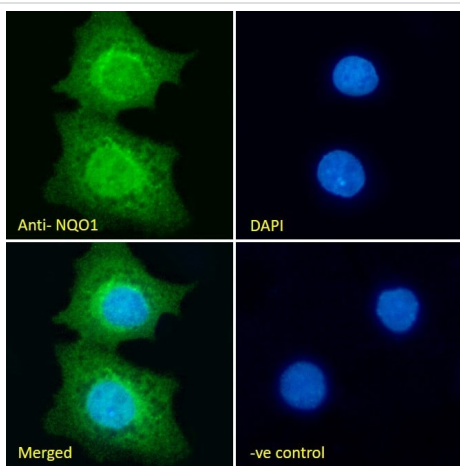
Observed band size: 30 kDa

Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NQO1 antibody (ab2346)

ab2346 (2µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Immunocytochemistry/ Immunofluorescence - Anti-NQO1 antibody (ab2346)

ab2346 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

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