

# Human NQO2 antibody

Catalog Number: ATGA0192

## PRODUCT INFORMATION

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**Catalog number**

ATGA0192

**Clone No.**

AT1E3

**Product type**

Monoclonal Antibody

**UnitProt No.**

P16083

**NCBI Accession No.**

AAH06096

**Alternative Names**

N-ribosyldihyronicotinamide:quinone reductase 2, NMOR2, NAD(P)H menadiene oxidoreductase 2, Dioxin-inducible, NAD(P)H quinone dehydrogenase 2, Quinone reductase 2, QR2, DHQV, DIA6, NRH:quinone oxidoreductase 2

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human NQO2 (1-231aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Quinone oxidoreductase (NQO1 and NQO2) are cytosolic proteins that catalyze metabolic reduction of quinines and derivatives. NQO2 is inhibited by flavones such as quercetin. Also benzo (a) pyrene is another known inhibitor of NQO2. Even though overlapping substrates specificities have been observed for NQO1 and NQO2, such as for CB1954 activation, significant differences exist in relative affinities for the various substrates. The detoxification role of NQO2 has not been found, and it has no known endogenous biological substrates. However, NQO1 plays an important role in the detoxification of various endogenous and exogenous quinones, including estrogen quinines. Also NQO2 has a melatonin-binding site, which may explain the anti-oxidant role of melatonin related with circadian rhythm.

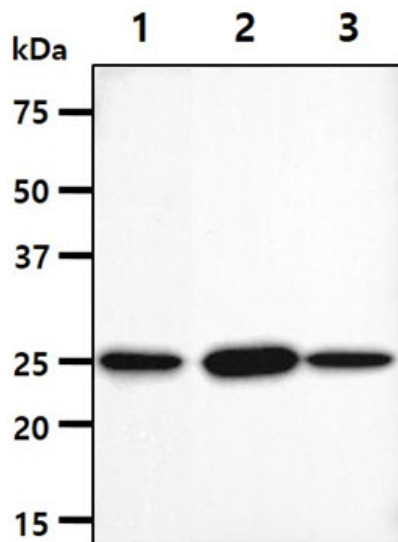
### General References

Wu K., et al., (1997) Arch Biochem Biophys. 347(2):221-8.

Aiswal AK., et al., (1994) J Biol Chem. 269(20):14502-8.

## DATA

### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NQO2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate

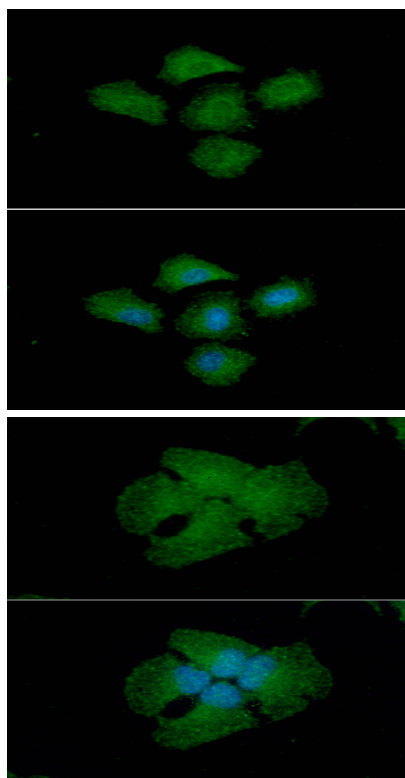
Lane 2.: K562 cell lysate

Lane 3.: A549 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of NQO2 in A549 cells. The cell was stained with ATGA0192 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of NQO2 in HeLa cells. The cell was stained with ATGA0192 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).