**NQO1 Polyclonal ANTIBODY**

**Catalog Number:** 11451-1-AP

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**Basic Information**

- **Catalog Number:** 11451-1-AP
- **Size:** 28 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG2009

**GenBank Accession Number:** BC070659

**GeneID (NCBI):** 1728

**Calculated MW:** 274aa, 31 kDa

**Observed MW:** 31 kDa

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**Applications**

- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA

**Cited Applications:** IF, IHC, WB

**Species Specificity:** human

**Cited Species:** human, pig

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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**Background Information**

NQO1, also named as DIA4, NQO1, DTD and QR1, belongs to the NAD(P)H dehydrogenase (quinone) family. This 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. It is known to be involved in benzene metabolism. In human studies of ozone exposure, polymorphisms in oxidative stress genes (NQO1, GSTM1, GSTP1) modify respiratory symptoms, lung function, biomarkers and risk of asthma. (PMID:18511640; 18848868 ) This antibody recognizes all the three isoforms (26-27 kDa and 31 kDa) of NQO1 and the homo-dimer form (66-70 kDa) of NQO1.

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**Notable Publications**

- **Author:** Yueqi Li
  - **Pubmed ID:** 30378153
  - **Journal:** J Cell Biochem
  - **Application:** WB

- **Author:** Qianying Zhang
  - **Pubmed ID:** 27713953
  - **Journal:** Food Funct
  - **Application:** WB

- **Author:** Yin-Ran Hu
  - **Pubmed ID:** 27903425
  - **Journal:** Biomed Pharmacother
  - **Application:** WB

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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3
- **Aliquoting is unnecessary for -20°C storage**

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For technical support and original validation data for this product please contact:

- **E:** proteintech@ptglab.com
- **W:** ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

WB result of NQO1 antibody (11451-1-AP, 1:1000) with si-control and si-NQO1 transfected HepG2 cells.

Immunofluorescent analysis of MCF-7 cells, using NQO1 antibody 11451-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).

K-562 cells were subjected to SDS PAGE followed by western blot with 11451-1-AP NQO1 Antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.

HepG2 cells were subjected to SDS PAGE followed by western blot with 11451-1-AP NQO1 Antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.

HepG2 cells were subjected to SDS PAGE followed by western blot with 11451-1-AP NQO1 Antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.


Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11451-1-AP (NQO1 Antibody) at dilution of 1:200 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11451-1-AP (NQO1 Antibody) at dilution of 1:200 (under 40x lens).

1X10^6 MCF-7 cells were stained with 0.2µg NQO1 antibody (11451-1-AP, red) and control antibody (blue). Fixed with 90% MIOH blocked with 5% BSA (30 min), Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.