

# NQO1 Rabbit mAb

Catalog No.: A23486 **Recombinant**

## Basic Information

**Observed MW**

31kDa

**Calculated MW**

31kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IP

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC0065

## Background

This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IHC-P** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

1728

**Swiss Prot**

P15559

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-100 of human NQO1 (NP\_000894.1).

**Synonyms**

DTD; QR1; DHQU; DIA4; NMOR1; NMORI; NQO1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

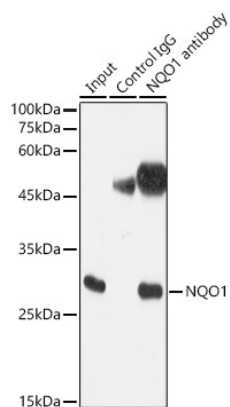
Affinity purification

**Storage**

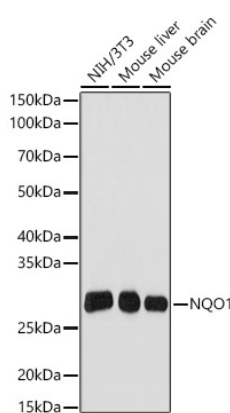
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

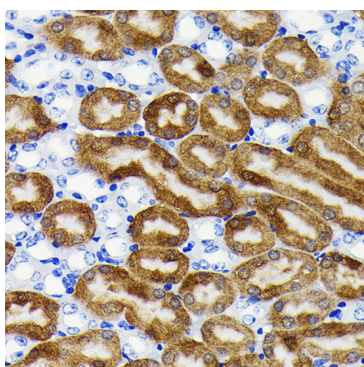
## Validation Data



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg NQO1 antibody (A23486). Western blot was performed from the immunoprecipitate using NQO1 antibody (A23486) at a dilution of 1:1000.



Western blot analysis of various lysates, using NQO1 Rabbit mAb (A23486) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunohistochemistry analysis of NQO1 in paraffin-embedded mouse kidney using [KD Validated] NQO1 Rabbit mAb (A23486) at dilution of 100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.0 before commencing with IHC staining protocol.