ARG43339
anti-NQO1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NQO1
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NQO1
Species	Human
Immunogen	Synthetic peptide derived from Human NQO1.
Conjugation	Un-conjugated
Alternate Names	DTD; QR1; DHQU; DIA4; NMOR1; NMORI; NAD(P)H dehydrogenase [quinone] 1; EC 1.6.5.2; Azoreductase; DT-diaphorase; DTD; Menadione reductase; NAD(P)H:quinone oxidoreductase 1; Phylloquinone reductase; Quinone reductase 1; QR1

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
IP	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa
Observed Size	~ 30 kDa

Properties

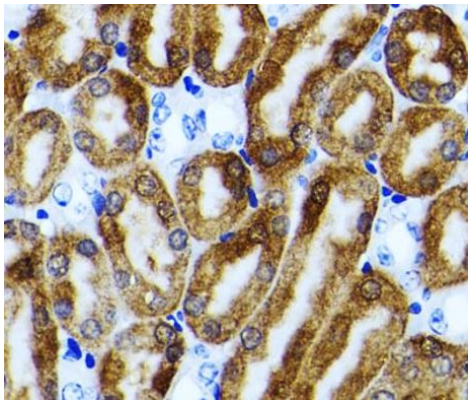
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide, 50% Glycerol and 0.05% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

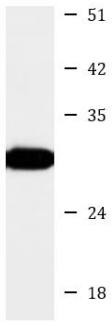
Gene Symbol	NQO1
Gene Full Name	NAD(P)H dehydrogenase, quinone 1
Background	This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity 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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Highlight	Related products: NQO1 antibodies; NQO1 Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: Keap1-Nrf2-ARE antibody panel is launched
Calculated Mw	31 kDa
Cellular Localization	Cytoplasm. [UniProt]

Images



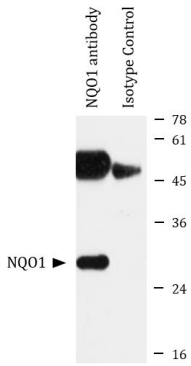
ARG43339 anti-NQO1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney tissue stained with ARG43339 anti-NQO1 antibody at 1:100 dilution.



ARG43339 anti-NQO1 antibody WB image

Western blot: 25 µg of HeLa cell lysate stained with ARG43339 anti-NQO1 antibody at 1:1000 dilution.



ARG43339 anti-NQO1 antibody IP image

Immunoprecipitation: 300 µg extracts of HeLa cells were immunoprecipitated and stained with ARG43339 anti-NQO1 antibody at 1:1000 dilution.