



NQO1 Rabbit mAb

Catalog No	YP-rAb-17965
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	NQO1
Protein Name	NQO1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200, Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	NQO1 ; DIA4 ; NMOR1 ; NAD ; P ; H dehydrogenase [quinone] 1 ; Azoreductase ; DT-diaphorase ; DTD ; Menadione reductase ; NAD ; P ; H:quinone oxidoreductase 1 ; Phylloquinone reductase ; Quinone reductase 1 ; QR1
Observed Band	31kD
Calculated Molecular Weight	31kD
Cell Pathway	Cytoplasm
Tissue Specificity	Colon,Liver,Pooled,
Function	Catalytic activity:NAD(P)H + a quinone = NAD(P)(+) + a hydroquinone.,cofactor:FAD.,enzyme regulation:Inhibited by dicoumarol.,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.,induction:By dioxin.,mass spectrometry: PubMed:11735396,miscellaneous:Quinone reductase accepts electrons from both NADH and NADPH with equal efficiency.,polymorphism:The Ser-187 polymorphism may be linked to susceptibility to forms of cancers.,similarity:Belongs to the NAD(P)H dehydrogenase (quinone)





family.,subunit:Homodimer.,

Background

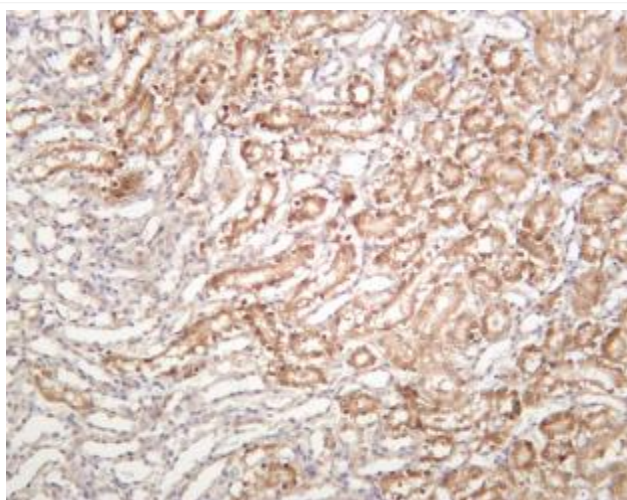
This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production 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],

matters needing attention

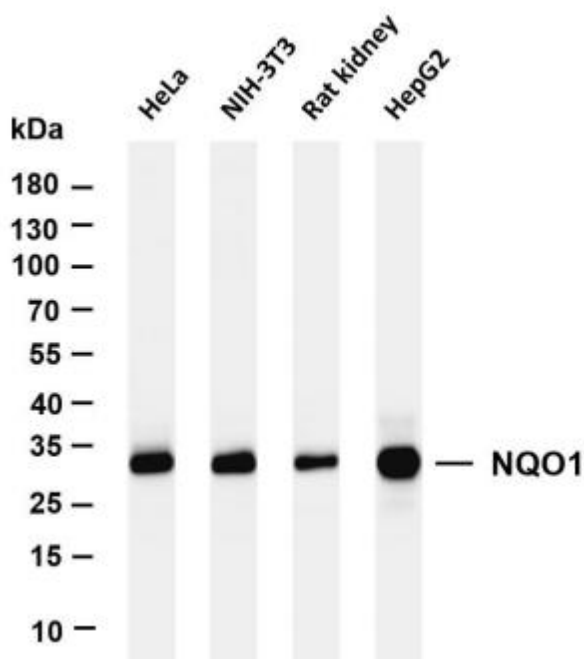
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

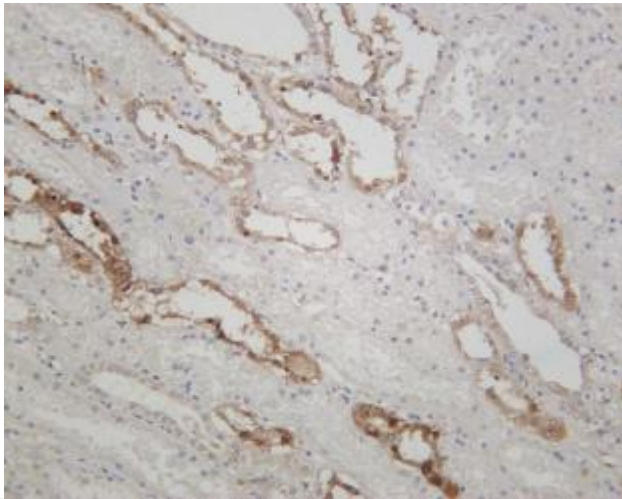


Rat kidney was stained with anti-NQO1 rabbit antibody

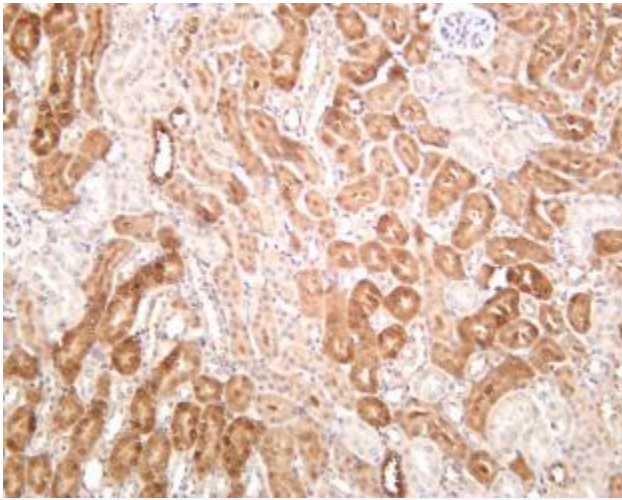


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NQO1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: NIH-3T3 Lane 3: Rat kidney Lane 4: HepG2 Predicted band size: 31kDa Observed band size: 31kDa

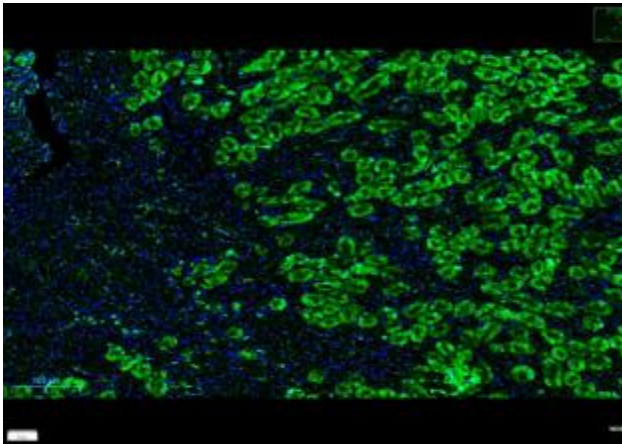




Human kidney was stained with anti-NQO1 rabbit antibody



Mouse kidney was stained with anti-NQO1 rabbit antibody



Mouse kidney was stained with anti-NQO1 rabbit antibody

