



Rabbit Anti-NQO1 antibody

SL2184R

Product Name:	NQO1
Chinese Name:	醌氧化还原酶抗体
Alias:	Azoreductase; Cytochrome b 5 reductase; DHQU; DIA 4; DIA4; Diaphorase (NADH/NADPH) (cytochrome b 5 reductase); Diaphorase (NADH/NADPH) (cytochrome b-5 reductase); Diaphorase (NADH/NADPH) (cytochrome b-5 reductase); Diaphorase (NADH/NADPH); Diaphorase 4; Dioxin inducible 1; DT diaphorase; DT-diaphorase; DTD; Menadione reductase; NAD(P)H dehydrogenase [quinone] 1; NAD(P)H dehydrogenase quinone 1; NAD(P)H menadione oxidoreductase 1 dioxin inducible; NAD(P)H: menadione oxidoreductase 1 dioxin inducible 1; NAD(P)H:menadione oxidoreductase 1; NAD(P)H:Quinone acceptor oxidoreductase type 1; NAD(P)H:quinone oxidoreductase 1; NAD(P)H:quinone oxidoreductase; NMOR 1; NMOR I; NMOR1; NMORI; NQO 1; NQO1_HUMAN; Phylloquinone reductase; Phylloquinone reductase; QR 1; QR1; Quinone reductase 1; Quinone reductase 1.
文献引用 PubMed :	<p>Specific References(4) SL2184R has been referenced in 4 publications.</p> <p>[IF=3.83]Wang, Peng, et al. "Geraniin exerts cytoprotective effect against cellular oxidative stress by upregulation of Nrf2-mediated antioxidant enzymes expression via PI3K/AKT and ERK1/2 pathway." Biochimica et Biophysica Acta (BBA)-General Subjects (2015).WB;Human. PubMed:25917210</p> <p>[IF=2.40]Zhao, Feng, et al. "Silymarin attenuates paraquat-induced lung injury via Nrf2-mediated pathway in vivo and in vitro." Clinical and Experimental Pharmacology and Physiology (2015).WB;Human. PubMed:26173462</p> <p>[IF=1.07]Liu, Cui-Zhen, et al. "HBSP attenuates lipopolysaccharide-induced inflammatory response in human renal proximal tubular epithelial cells by induction of</p>

	<p>Nrf2 via PI3K/Akt pathway." Int J Clin Exp Med 10.1 (2017): 587-597.WB;Human.</p> <p style="text-align: center;">PubMed:0</p> <p>[IF=2.55]Shen, Haitao, et al. "Chloroquine attenuates paraquat-induced lung injury in mice by altering inflammation, oxidative stress and fibrosis." International Immunopharmacology 46 (2017): 16-22.WB;Mouse.</p> <p style="text-align: center;">PubMed:28249220</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Pig,Horse,Rabbit,Guinea Pig,
Applications:	<p>WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)</p> <p>not yet tested in other applications.</p> <p>optimal dilutions/concentrations should be determined by the end user.</p>
Molecular weight:	31kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NQO1:201-274/274
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>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].</p> <p>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.</p> <p>Subunit:</p>

Homodimer.

Subcellular Location:

Cytoplasm.

Similarity:

Belongs to the NAD(P)H dehydrogenase (quinone) family.

SWISS:

P15559

Gene ID:

1728

Database links:

[Entrez Gene: 610935](#)Dog

[Entrez Gene: 1728](#)Human

[Entrez Gene: 18104](#)Mouse

[Entrez Gene: 100286873](#)Pig

[Entrez Gene: 24314](#)Rat

[Omin: 125860](#)Human

[SwissProt: P15559](#)Human

[SwissProt: Q64669](#)Mouse

[SwissProt: P05982](#)Rat

[Unigene: 406515](#)Human

[Unigene: 252](#)Mouse

[Unigene: 11234](#)Rat

Important Note:

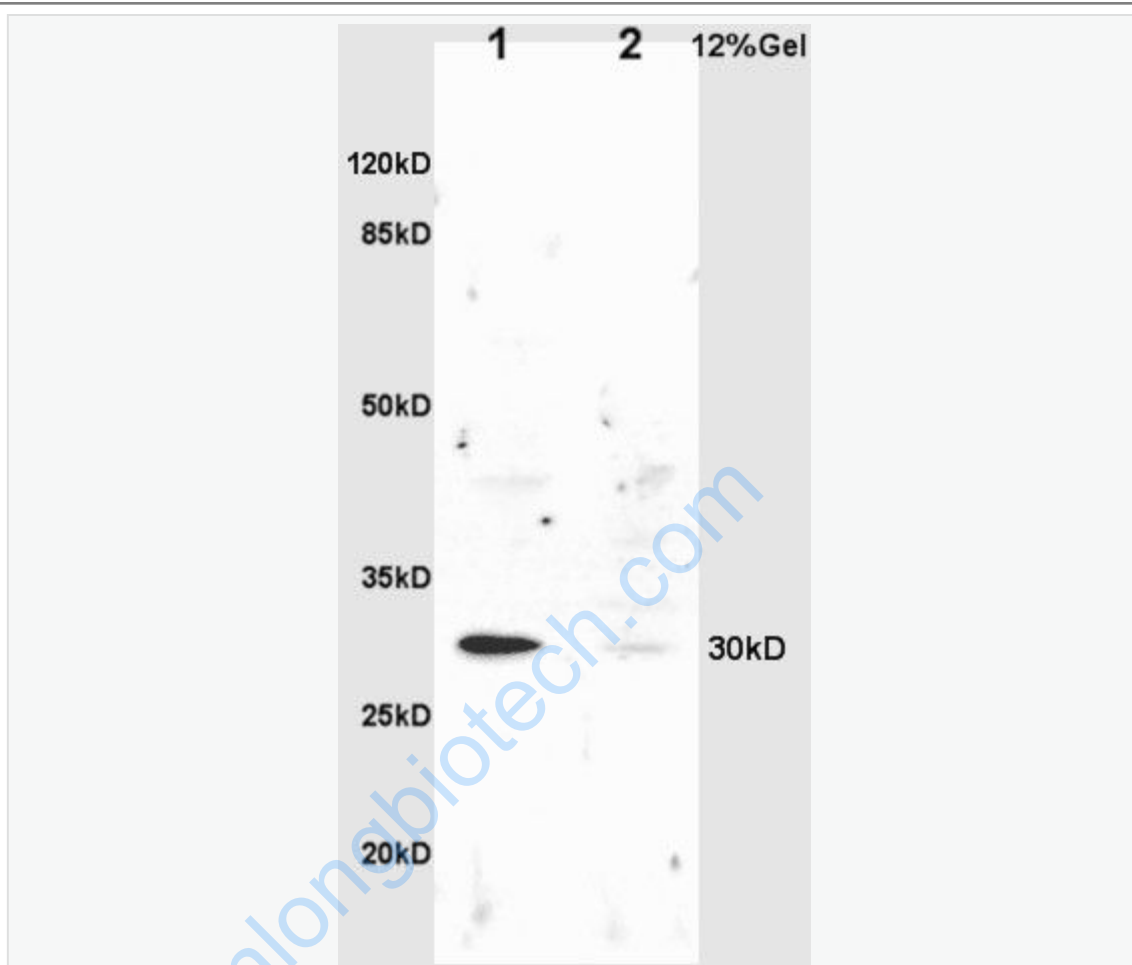
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Synthesis and Degradation (Synthesis and Degradation)

醌氧化还原酶(NQO1)是一种黄素酶,它催化醌双电子还原反应,以减少氧自由基的产生。经研究发现NQO1可能有抗氧化效应,目前多用于帕金森病(PD)和部分Tumour方面的研究。

醌是一种有毒的化合物,能诱发哺乳动物细胞癌变、突变和坏死。

Picture:



Sample:

Lane1: Liver(Rat) Lysate at 30 ug

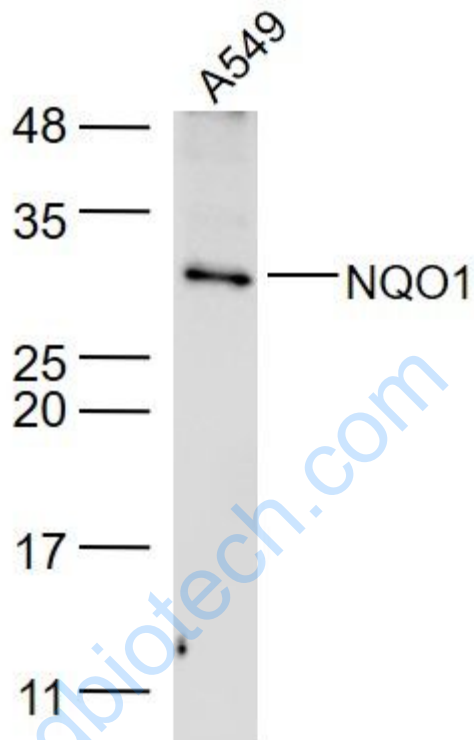
Lane2: Brain(Rat) Lysate at 30 ug

Primary: Anti-NQO1 (SL2184R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL2184R) at 1: 3000 dilution;

Predicted band size : 31kD

Observed band size : 30kD



Sample:

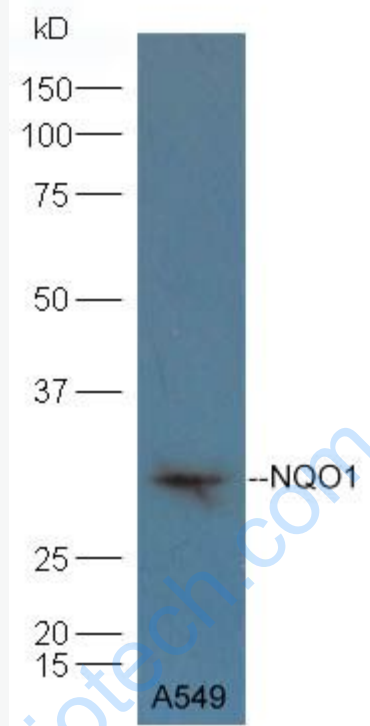
A549(Human) Cell Lysate at 30 ug

Primary: Anti-NQO1 (SL2184R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kD

Observed band size: 31 kD



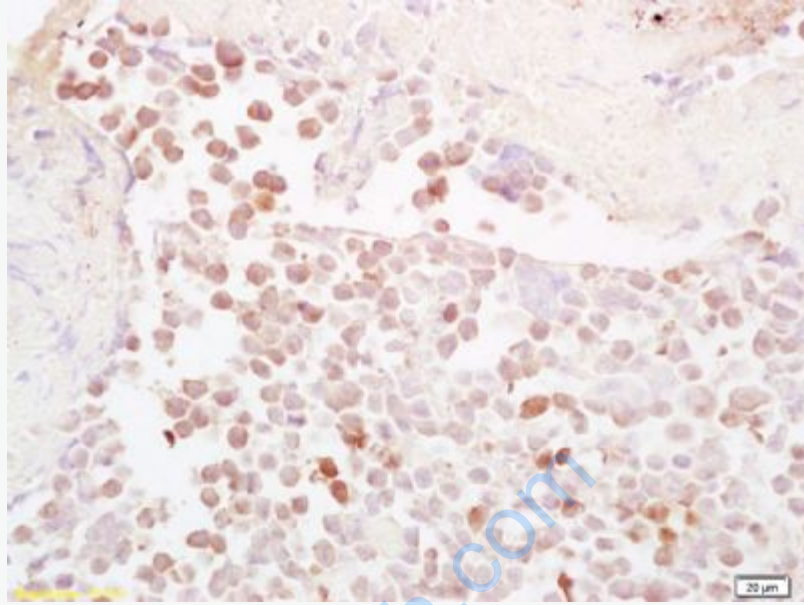
Protein: A549 lysate at 30ug;

Primary: Anti-NQO1 (SL2184R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL2184R) at 1: 5000 dilution;

Predicted band size : 31 kD

Observed band size :31 kD



Tissue/cell: mouse colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-NQO1 Polyclonal Antibody, Unconjugated(SL2184R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining