

Datasheet for ABIN7268795

anti-NQO1 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	NQO1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This NQO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Purpose:	NQO1 Rabbit mAb
Immunogen:	A synthesized peptide derived from human NQO1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	NQO1
Alternative Name:	NQO1 (NQO1 Products)
Background:	This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a

Target Details

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],DHQU;DIA4;DTD;NMOR1;NMORI;QR1;NQO1,Cancer,Drug metabolism,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,RNA Binding,Signal Transduction,NQO1

Molecular Weight: 31kDa

Gene ID: 1728

UniProt: [P15559](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

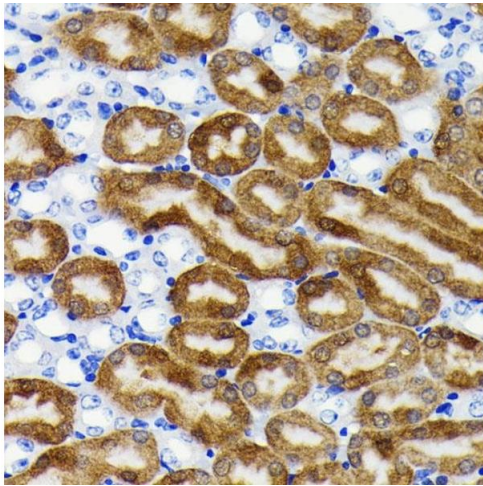
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

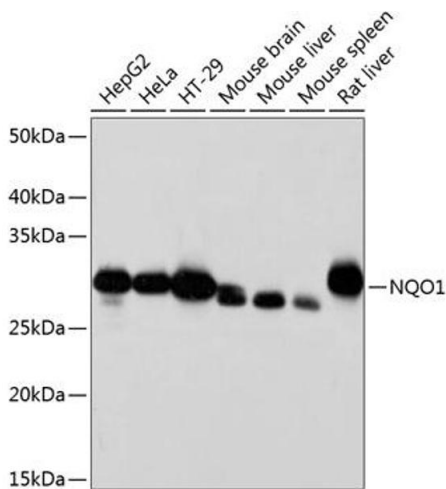
Storage: -20 °C

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



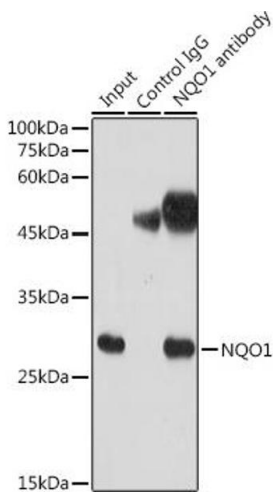
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse kidney using NQO1 antibody (ABIN7268795) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using NQO1 antibody (ABIN7268795) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg NQO1 antibody (ABIN7268795). Western blot was performed from the immunoprecipitate using NQO1 antibody (ABIN7268795) at a dilution of 1:1000.