

Basic Information

Product Name	Anti-NQO1 Antibody (Clone#AAOB-14)	
Gene Name	NQO1	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP, FCM	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human NQO1	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	31 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20
	Flow Cytometry (FCM):	1:20

Storage

12 months from date of receipt, -20°C as supplied.

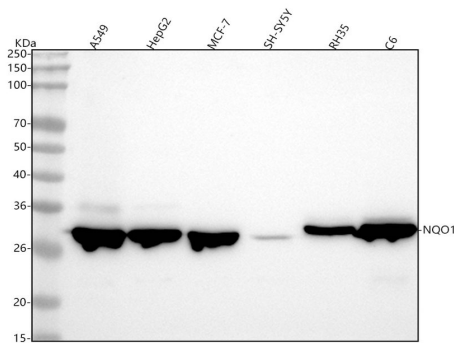
Background Information

This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. And this FAD-binding protein forms homodimers and reduces quinones to hydroquinones. In addition, 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.

Reference

Anti-NQO1 Antibody (Clone#AAOB-14)被引用在9文献中。

Selected Validation Data



Western blot analysis of anti-NQO1 antibody (BM4978). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,

Lane 2: human HepG2 whole cell lysates,

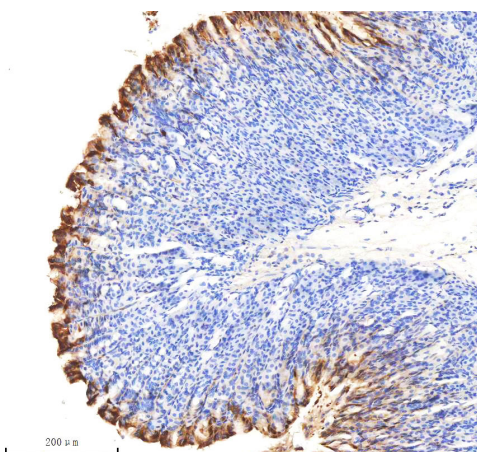
Lane 3: human MCF-7 whole cell lysates,

Lane 4: human SH-SY5Y whole cell lysates,

Lane 5: rat RH-35 whole cell lysates,

Lane 6: rat C6 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NQO1 antigen affinity purified monoclonal antibody (BM4978) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NQO1 at approximately 27, 31 kDa. The expected band size for NQO1 is at 31 kDa.



IHC analysis of NQO1 using anti-NQO1 antibody (BM4978) .

NQO1 was detected in a paraffin-embedded section of mouse stomach tissue. The tissue section was incubated with rabbit anti-NQO1 Antibody (BM4978) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.