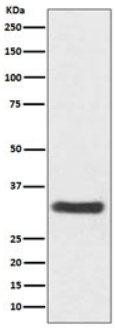
NQO1 Antibody [clone AAOB-14] (RQ5489)

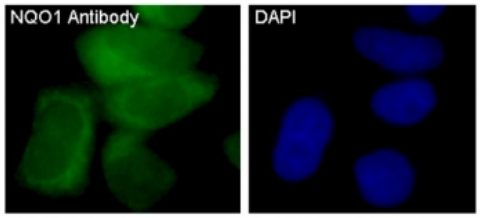
Catalog No.	Formulation	Size
RQ5489	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

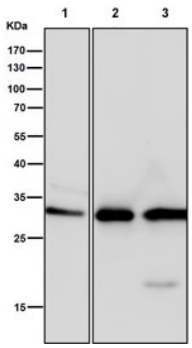
Availability	1-2 weeks
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AAOB-14
Purity	Affinity purified
UniProt	P15559
Applications	Western blot : 1:1000-1:5000 Immunofluorescence : 1:50-1:200 Immunohistochemistry (FFPE) : 1:50-1:200
Limitations	This NQO1 antibody is available for research use only.



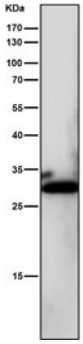
Western blot testing of human SH-SY5Y cell lysate with NQO1 antibody. Predicted molecular weight ~30 kDa.



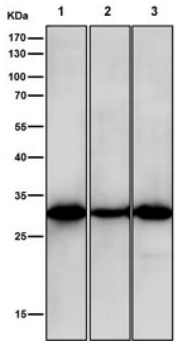
Immunofluorescent staining of FFPE human MCF7 cells with NQO1 antibody (green) and DAPI nuclear stain (blue).



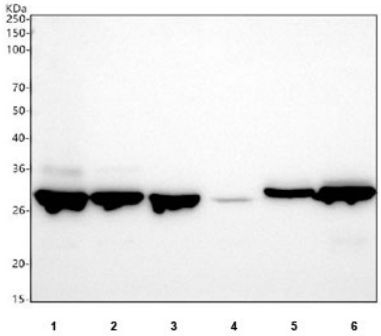
Western blot testing of human 1) HeLa, 2) HepG2 and 3) MCF7 cell lysate with NQO1 antibody. Predicted molecular weight ~30 kDa.



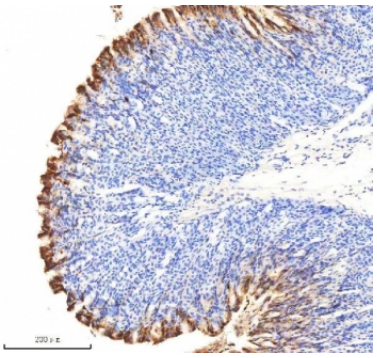
Western blot testing of mouse kidney tissue lysate with NQO1 antibody. Predicted molecular weight ~30 kDa.



Western blot testing of rat 1) liver, 2) spleen and 3) lung tissue lysate with NQO1 antibody. Predicted molecular weight ~30 kDa.



Western blot testing of 1) human A549, 2) human HepG2, 3) human MCF7, 4) human SH-SY5Y, 5) rat RH35 and 6) rat C6 cell lysate with NQO1 antibody. Predicted molecular weight ~30 kDa.



IHC staining of FFPE mouse stomach tissue with NQO1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

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. [RefSeq]

Application Notes

Optimal dilution of the NQO1 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human NQO1 was used as the immunogen for the NQO1 antibody.

Storage

Store the NQO1 antibody at -20oC.

Ordering:Phone:858.663.9055 | Fax:1.267.821.0800 | Email:info@nsjbio.com