

Mouse anti-Human, Mouse NQO2 Monoclonal Antibody | anti-NQO2 antibody

NQO2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48081	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

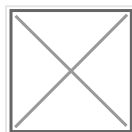
PRODUCT SYNONYMS

NQO2; Monoclonal Antibody; NQO2 antibody; Ribosyldihyronicotinamide dehydrogenase; DHQV; DIA6; QR2; Ribosyldihyronicotinamide dehydrogenase Ox2; EC 1.10.99.2; MGC94180; NAD (P)H dehydrogenase quinone 2; NAD (P)H menadione oxidoreductase 1 dioxin inducible 2; NAD (P)H menadione oxidoreductase 2 dioxin inducible; NMOR2; NQO 2; NRH dehydrogenase; NRH:quinone oxidoreductase 2; OTTHuMP00000015948; OTTHuMP00000015949; OTTHuMP00000015953; Ox 2; Quinone; Quinone reductase 2; Ribosyldihyronicotinamide dehydrogenase.; anti-NQO2 antibody

PRODUCT SPECIFICATIONS

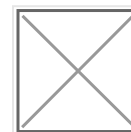
Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT1E3
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	231
Applicable Applications for anti-NQO2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human NQO2 (1-231aa) purified from E. coli
Clone Note	Anti-human NQO2 mAb, clone AT1E3, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human NQO2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of NQO2 in A549 cell line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human NQO2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NQO2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: K562 cell lysate Lane 3.: A549 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-NQO2 antibody	Quinone oxidoreductase (NQO1 and NQO2) are cytosolic proteins that catalyze metabolic reduction of quinines and derivatives. NQO2 is inhibited by flavones such as quercetin. Also benzo (a)pyrene is another known inhibitor of NQO2. Even though overlapping substrates specificities have been observed for NQO1 and NQO2, such as for CB1954 activation, significant differences exist in relative affinities for the various substrates. The detoxification role of NQO2 has not been found, and it has no known endogenous biological substrates. However, NQO1 plays an important role in the detoxification of various endogenous and exogenous quinones, including estrogen quinines. Also NQO2 has a melatonin-binding site, which may explain the anti-oxidant role of melatonin related with circadian rhythm.
Product Categories/Family for anti-NQO2 antibody	Metabolism
References	Wu K., et al., (1997) Arch Biochem Biophys. 347 (2):221-8.; Aiswal AK., et al., (1994) J Biol Chem. 269 (20):14502-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13543901
NCBI GeneID	4835
Molecular Weight	25,919 Da
NCBI Official Full Name	NAD(P)H dehydrogenase, quinone 2
NCBI Official Synonym Full Names	N-ribosyldihydronicotinamide:quinone reductase 2
NCBI Official Symbol	NQO2
NCBI Official Synonym Symbols	QR2; DHQV; DIA6; NMOR2
NCBI Protein Information	ribosyldihydronicotinamide dehydrogenase [quinone]
UniProt Protein Name	Ribosyldihydronicotinamide dehydrogenase [quinone]
UniProt Gene Name	NQO2
UniProt Synonym Gene Names	NMOR2; QR2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/nqo2-antibody-clone-at1e3-immunofluorescence-immunocytochemistry-western-blot-elisa/48081>