

Product Name: KD-Validated NQO2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01008**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 25.9kDa

Antigen Information

Gene Name	NQO2 NQO2; N-Ribosyldihydronicotinamide:Quinone Dehydrogenase 2; QR2; N-Ribosyldihydronicotinamide:Quinone Reductase 2; NRH:Quinone Oxidoreductase 2; Quinone Reductase 2; NMOR2; DHQV; DIA6; Ribosyldihydronicotinamide Dehydrogenase
Alternative Names	[Quinone]; NAD(P)H Quinone Dehydrogenase 2; NAD(P)H Menadione Oxidoreductase-1, Dioxin-Inducible-2; NAD(P)H Menadione Oxidoreductase 2, Dioxin-Inducible; Ribosyldihydronicotinamide Dehydrogenase; NAD(P)H Dehydrogenase, Quinone 2; NRH Dehydrogenase [Quinone] 2; EC 1.10.5.1
Gene ID	4835.0
SwissProt ID	P16083
Immunogen	A synthesized peptide derived from human NQO2

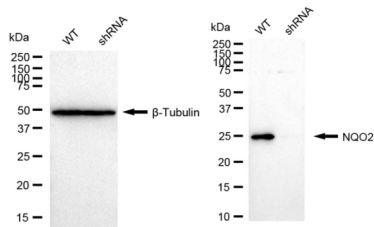
Background

This gene encodes a member of the thioredoxin family of enzymes. It is a cytosolic and ubiquitously expressed flavoprotein that catalyzes the two-electron reduction of quinone substrates and uses dihydronicotinamide riboside as a reducing coenzyme. Mutations in this gene have been associated with neurodegenerative diseases and several cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

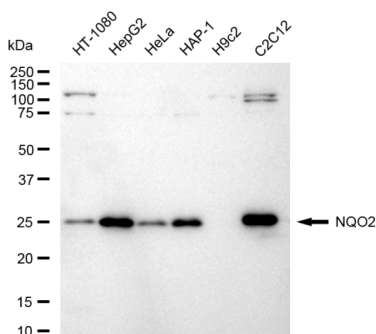
Research Area

Signal Transduction, Cell Biology, Metabolism

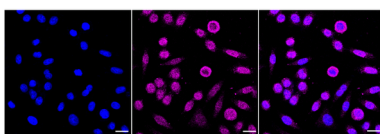
Image Data



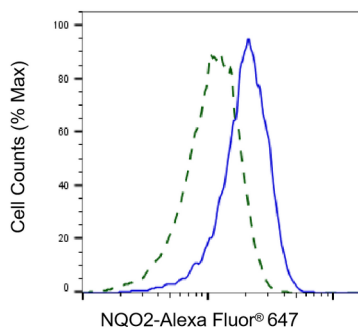
Western blotting analysis using NQO2 antibody (KVA01008). NQO2 expression in wild type (WT) and NQO2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NQO2 antibody (KVA01008, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using NQO2 antibody (KVA01008). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NQO2 antibody (KVA01008, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with NQO2 antibody (KVA01008, 1:1,000). Nuclei were stained blue with DAPI; NQO2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



Validation of NQO2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NQO2 antibody (KVA01008, 1:2,000) and analyzed using BD flow cytometer.