

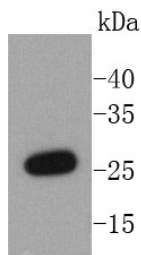
Anti-NQO2 Antibody (1E974)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 26 kDa.
Clone:	1E974
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of NQO2 on Hela cells lysates using anti-NQO2 antibody at 1/1,000 dilution.



Application:	WB
Recommended	WB: 1:1000-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P16083
Synonyms:	QR2;Ribosyldihydronicotinamide dehydrogenase [quinone];NRH:quinone oxidoreductase 2;EC 1.10.5.1;Quinone reductase 2;NQO 2;NMOR2;NRH dehydrogenase [quinone] 2

Research Background

NAD(P)H:quinone oxidoreductase 1 (NQO1) and NRH:quinone oxidoreductase (NQO2) are flavoproteins that catalyze the metabolic detoxification of quinones and their derivatives to hydroquinones. This detoxification process protects cells against quinone-induced oxidative stress, cytotoxicity and mutagenicity. NQO2 is a 231 amino acid protein and is 43 amino acids shorter than NQO1 at its C-terminus. NQO2 is an isozyme of NQO1 and transfers two electrons to a quinone, resulting in the formation of a hydroquinone product. The NQO2 gene is ubiquitously expressed and induced in response to TCDD. NQO2 has a higher level of expression in mouse liver and testis than NQO1, which is highly expressed in the heart. NQO2 has a different cofactor requirement than NQO1 and uses dihydronicotinamide riboside (NRH) rather than NAD(P)H as an electron donor. Unlike NQO1, NQO2 is resistant to

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typical inhibitors of NQO1 such as dicoumarol, Cibacron blue and phenindonee, but is inhibited by quercetin and benzo(a)pyrene. NQO2 contains a specific metal binding site, which is absent in NQO1 and several cis-elements including SP1 binding sites, CCAAT box, XRE and ARE, which are located at the NQO2 gene promoter.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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