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Datasheet for ABIN1574155
anti-NQO1 antibody (C-Term)

2 Images

Overview

Quantity:	40 µg
Target:	NQO1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NQO1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH-coupled synthetic peptide from C-terminal of human NQO1 .
Isotype:	IgG2b
Specificity:	Rabbit Anti-NQO1 Polyclonal Antibody detects endogenous levels of human NQO1.
Purification:	Immunoaffinity chromatography.

Target Details

Target:	NQO1
Alternative Name:	NQO1 (NQO1 Products)
Background:	Quinone oxidoreductase 1 (NQO1) is a cytosolic flavoenzyme that catalyzes the two-electron reduction of a broad range of substrates. It is one member of the NAD(P)H dehydrogenase

Target Details

(quinone) family. NQO1 functions as an important part of cellular antioxidant defense by detoxifying quinones thus preventing the formation of reactive oxygen species. NQO1 can serve as a detoxification enzyme for it has the ability to reduce quinone substrates directly to their less toxic hydroquinone derivatives. NQO1 can also function as an antioxidant enzyme reducing ubiquinone and vitamin E quinone to their antioxidant forms. Rabbit Anti-NQO1 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide from C-terminal of human NQO1 (Swiss Prot: P15559).

Application Details

Application Notes: Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western blot: 0.5-1 µg/mL
Flow cytometry: 1-3 µg for 1 x 10⁶ cells
Other Applications: user optimized

Restrictions: For Research Use only

Handling

Format: Lyophilized

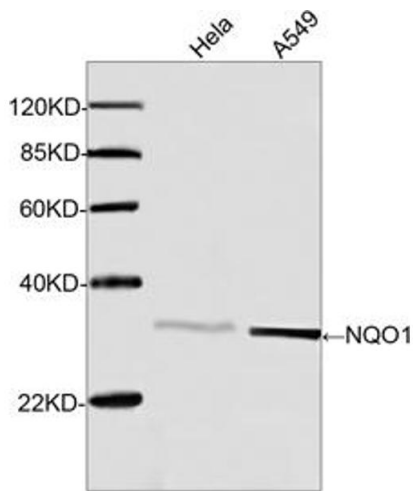
Buffer: PBS, pH 7.4, containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

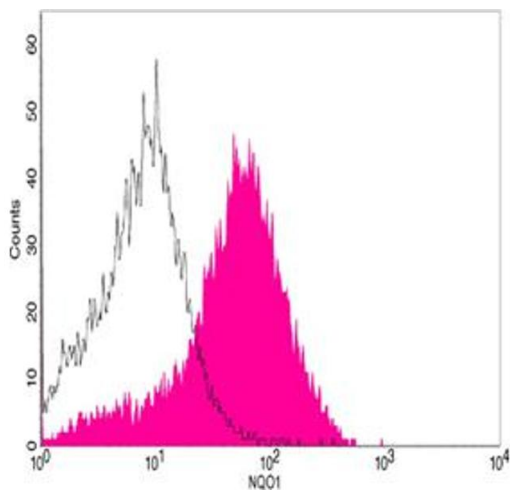
Storage: 4 °C/-20 °C

Storage Comment: The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.



Western Blotting

Image 1. Western blot analysis of cell lysates using Rabbit Anti-NQO1 Polyclonal Antibody (ABIN399016, 1 µg/mL). The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG. Predicted Size: 31 KD Observed Size: 31 KD



Flow Cytometry

Image 2. Flow cytometric analysis of A549 cells using NQO1 antibody, pAb, Rabbit (ABIN399016, shaded histogram) or with an isotype control antibody (ABIN398653, open histogram), followed by R-PE conjugated anti-rabbit IgG.