

NQO1 antibody, pAb, Rabbit

Cat. No.: A01511-40

Size: 40 µg

Synonyms: Rabbit Anti-NQO1 polyclonal antibody; NQO1 antibody

Description:

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 (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. GenScript Rabbit Anti-NQO1 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide from C-terminal of human NQO1 (Swiss Prot: P15559).

Immunogen: KLH-coupled synthetic peptide from C-terminal of human NQO1 (Swiss Prot: P15559).

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

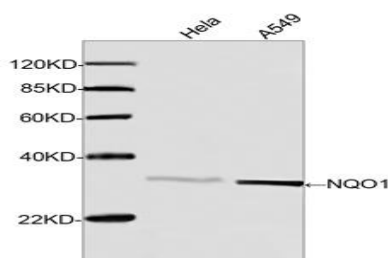
Predicated Band Size:

31 KD

Observed Band Size:

31 KD

Example



Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-NQO1 Polyclonal Antibody detects endogenous levels of human NQO1.

Purification: Immunoaffinity chromatography.

Applications:

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

Species Reactivity: Human

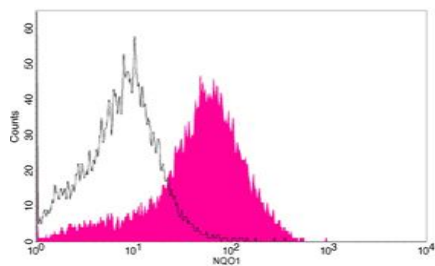
Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

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 blot analysis of cell lysates using Rabbit Anti-NQO1 Polyclonal Antibody (GenScript, A01511, 1 µg/ml) The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG. Predicted Size: 31 KD Observed Size: 31 KD



Flow cytometric analysis of A549 cells using NQO1 antibody, pAb, Rabbit (GenScript, A01511; shade histogram) or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG.