

Datasheet for ABIN7599200
anti-NQO1 antibody (AA 1-274)



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Overview

Quantity:	100 µg
Target:	NQO1
Binding Specificity:	AA 1-274
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NQO1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-NQO1 Antibody Picoband®
Immunogen:	E.coli-derived human NQO1 recombinant protein (Position: M1-K274).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-NQO1 Antibody Picoband® (ABIN7599200). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	NQO1
Alternative Name:	NQO1 (NQO1 Products)
Background:	Synonyms: Tyrosine-protein kinase SYK, Spleen tyrosine kinase, p72-Syk, SYK Tissue Specificity: Widely expressed in hematopoietic cells. Expressed in neutrophils. Within the B-cell compartment, expressed from pro- and pre-B cells to plasma cells. Background: NAD(P)H dehydrogenase [quinone] 1 is an enzyme that in humans is encoded by the NQO1 gene. This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. And this FAD-binding protein forms homodimers and reduces quinones to hydroquinones. In addition, this protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Molecular Weight:	31 kDa
Gene ID:	1728
UniProt:	P15559

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. "Entrez Gene: NQO1 NAD(P)H dehydrogenase, quinone 1". 2. Jaiswal AK (Nov 1991). "Human NAD(P)H:quinone oxidoreductase (NQO1) gene structure and induction by dioxin". Biochemistry 30 (44): 10647-53. 3. Ross D, Siegel D (2004). "NAD(P)H:quinone oxidoreductase 1 (NQO1, DT-diaphorase), functions and pharmacogenetics". Methods in Enzymology 382: 115-44.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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Handling

Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.