Datasheet for ABIN7599124

anti-NQO2 antibody (AA 1-231)

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Overview

Quantity:	100 µg
Target:	NQO2
Binding Specificity:	AA 1-231
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NQO2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-NQO2 Antibody Picoband®
Immunogen:	E.coli-derived human NQO2 recombinant protein (Position: M1-Q231).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-NQO2 Antibody Picoband® (ABIN7599124). Tested in ELISA, 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:	NQO2
Alternative Name:	NQO2 (NQO2 Products)
Background:	Synonyms: General transcription and DNA repair factor IIH helicase subunit XPB, TFIIH subunit XPB, Basic transcription factor 2 89 kDa subunit, BTF2 p89, DNA excision repair protein ERCC-3, DNA repair protein complementing XP-B cells, TFIIH basal transcription factor complex 89 kDa subunit, TFIIH 89 kDa subunit, TFIIH p89, Xeroderma pigmentosum group B-complementing protein, ERCC3, XPB, XPBC Tissue Specificity: Mainly expressed in pachytene spermatocytes of testis and in lymphocyte-rich areas of spleen and lymph nodes. Isoform v1 is expressed in spleen. Isoform v2 is expressed in testis. Also detected in ovary, placenta, pancreas, cardiac fibroblasts. Expressed in B-cells and prostate malignant cells. Isoform v1 and isoform v3 are expressed in epithelial colorectal adenocarcinoma cells. Isoform v2 and isoform v4 are expressed in endothelial cells. Isoform v1, isoform v2, isoform v3 and isoform v4 are expressed in pulmonary artery smooth muscle cells. Isoform v2 and isoform v5 are expressed in microvascular endothelial cells (at protein level). Background: NAD(P)H dehydrogenase, quinone 2, also known as QR2, is a protein that in humans is encoded by the NQO2 gene. 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.
Molecular Weight:	26 kDa
Gene ID:	4835
UniProt:	P16083

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, -

1. Gaikwad, N. W., Yang, L., Rogan, E. G., Cavalieri, E. L. Evidence for NQO2-mediated reduction of the carcinogenic estrogen ortho-quinones. Free Radic. Biol. Med. 46: 253-262, 2009. 2. Jaiswal, A. K., Bell, D. W., Radjendirane, V., Testa, J. R. Localization of human NQO1 gene to chromosome 16q22 and NQO2-6p25 and associated polymorphisms. Pharmacogenetics 9: 413-418, 1999. 3. Jaiswal, A. K., Burnett, P., Adesnik, M., McBride, O. W. Nucleotide and deduced

Application Details

	amino acid sequence of a human cDNA (NQO2) corresponding to a second member of the NAD(P)H:quinone oxidoreductase gene family: extensive polymorphism at the NQO2 gene locus on chromosome 6. (Abstract) Biochemistry 29: 1899-1906, 1990.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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 Na2HPO4.
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.