NQO1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	NQO1, Polyclonal Antibody
Full Product Name	NQO1 Polyclonal Antibody
Product Gene Name	anti-NQO1 antibody
Clonality	Polyclonal
Molecular Weight	26,365 Da
OMIM	125860
3D Structure	ModBase 3D Structure for P15559
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-NQO1 antibody	MBS8524167 is an antibody targeting NQO1. Also known as NQO1 Polyclonal Antibody.
Other Notes	Small volumes of anti-NQO1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NQO1. It may not necessarily be applicable to this product.

NCBI GI #	4505415
NCBI GeneID	1728
NCBI Accession #	NP_000894.1
UniProt Primary Accession #	P15559
UniProt Secondary Accession #	Q86UK1; B2R5Y9; B4DNM7; B7ZAD1
UniProt Related Accession #	P15559
GenBank Nucleotide #	NM_000903.2
NCBI Official Full Name	NAD(P)H dehydrogenase
NCBI Official Synonym Full Names	NAD(P)H quinone dehydrogenase 1
NCBI Official Symbol	NQO1
NCBI Official Synonym Symbols	DTD; QR1; DHQU; DIA4; NMOR1; NMORI
UniProt Protein Name	NAD(P)H dehydrogenase [quinone] 1
UniProt Synonym Protein Names	Azoreductase; DT-diaphorase; DTD; Menadione reductase; NAD(P)H:quinone oxidoreductase 1; Phylloquinone reductase; Quinone reductase 1; QR1
Protein Family	NAD(P)H dehydrogenase
UniProt Gene Name	NQO1
UniProt Synonym Gene Names	DIA4; NMOR1; DTD; QR1
NCBI Protein Information	NAD(P)H dehydrogenase [quinone] 1

NCBI Summary for NQO1	This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. 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. [provided by RefSeq, Jul 2008]
UniProt Comments for NQO1	The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinons involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis.
Research Articles on NQO1	**1.** the NRF2 target NAD(P)H:quinone oxidoreductase 1 (NQO1) was investigated as a readout parameter for NRF2 activity in monocytes of chronic kidney disease patients (n = 63) compared to those of healthy controls.
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