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NQO1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7350c

Specification

NQO1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P15559

NQO1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1728

Other Names
NAD(P)H dehydrogenase [quinone] 1, Azoreductase, DT-diaphorase, DTD, Menadione reductase, NAD(P)H:quinone oxidoreductase 1, Phylloquinone reductase, Quinone reductase 1, QR1, NQO1, DIA4, NMOR1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7350c was selected from the Center region of human NQO1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NQO1 Antibody (Center) Blocking Peptide - Protein Information

NQO1 Antibody (Center) Blocking Peptide - Background

NQO1 is a member of the NAD(P)H dehydrogenase(quinone) family and 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. Altered expression of the protein has been seen in many tumors and is also associated with Alzheimer's disease (AD).

NQO1 Antibody (Center) Blocking Peptide - References

Hubackova,M., Vaclavikova,R. Pharmacogenet. Genomics 19 (7), 505-512 (2009)Canova,C., Hashibe,M. Cancer Res. 69 (7), 2956-2965 (2009)Li,Y. and Jaiswal,A.K. J. Biol. Chem. 267 (21), 15097-15104 (1992)

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Name NQO1

Synonyms DIA4, NMOR1

Function
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.

Cellular Location
Cytoplasm.

NQO1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides