

Product datasheet for **AM06702SU-N**

NQO1 Mouse Monoclonal Antibody [Clone ID: 4D12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4D12
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. Immunohistochemistry on paraffin sections: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human NQO1 expressed in E. Coli.
Specificity:	This antibody reacts to NQO1.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	31 kDa
Gene Name:	NAD(P)H quinone dehydrogenase 1
Database Link:	Entrez Gene 1728 Human P15559



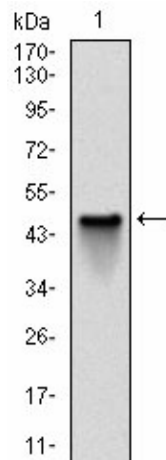
[View online »](#)

Background:

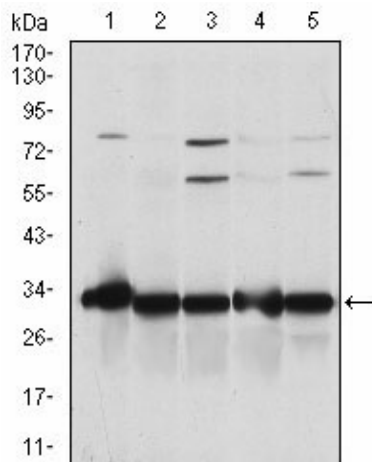
This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production 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.

Synonyms:

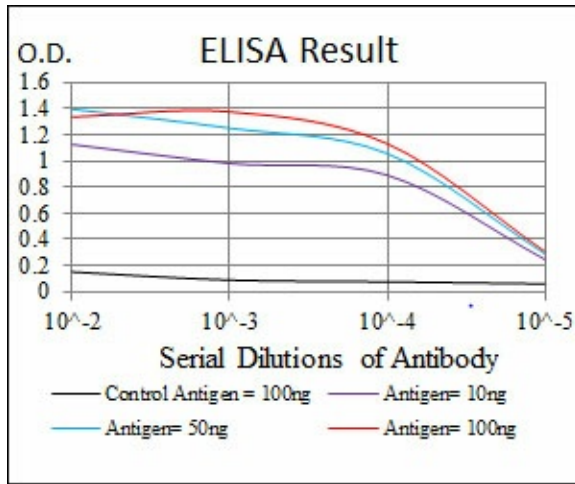
DIA4, NMOR1

Product images:


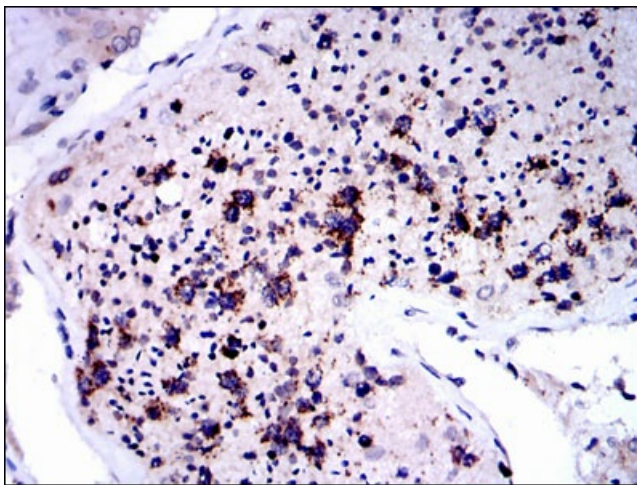
Western blot analysis using NQO1 mAb against human NQO1 (AA: 134-274) recombinant protein. (Expected MW is 41.3 kDa)



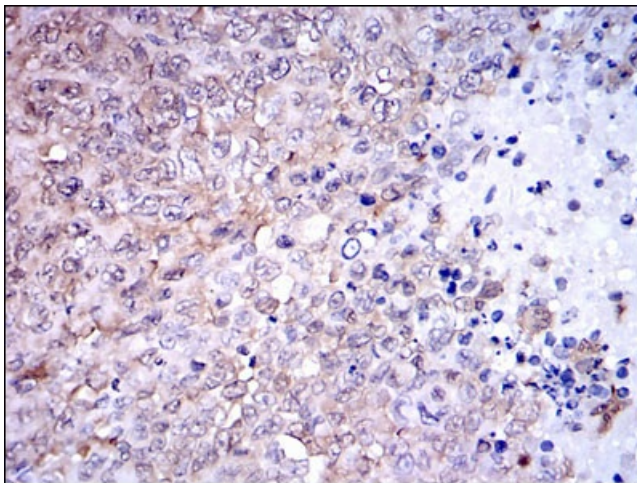
Western blot analysis using NQO1 mouse mAb against A549 (1), SKNES (2), HepG2 (3), MCF-7 (4) and HeLa (5) cell lysate.



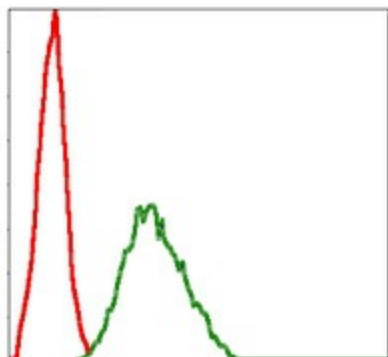
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunohistochemical analysis of paraffin-embedded testis tissues using NQO1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using NQO1 mouse mAb with DAB staining.



Flow cytometric analysis of NIH/3T3 cells using NQO1 mouse mAb (green) and negative control (red).