10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NQO1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NQO1.
Catalog # AT3089a

Specification

NQO1 Antibody (monoclonal) (M01) - Product Information

Application	**IF, IP, WB, E**
Primary Accession	P15559
Other Accession	BC007659
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**30868**

NQO1 Antibody (monoclonal) (M01) - 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
NQO1 (AAH07659, 1 a.a. ~ 274 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
NQO1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

NQO1 Antibody (monoclonal) (M01) - Protocols

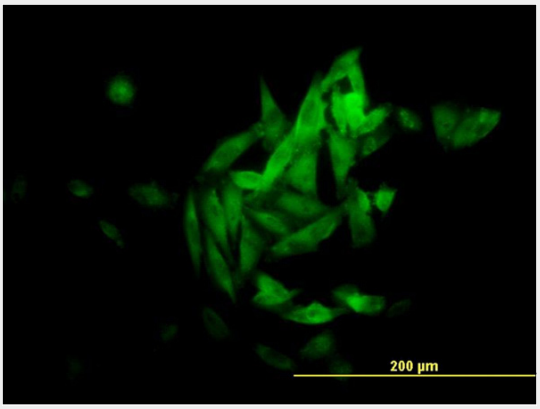
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

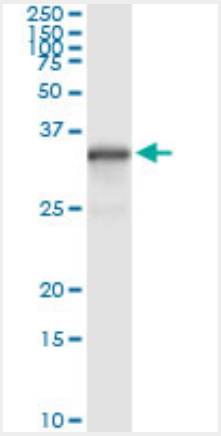
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- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

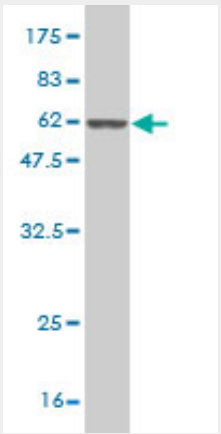
NQO1 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to NQO1 on HepG2 cell. [antibody concentration 10 ug/ml]

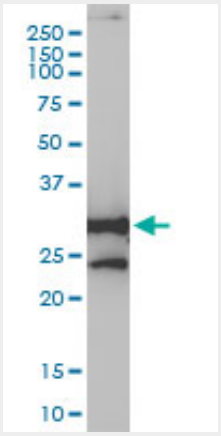


Immunoprecipitation of NQO1 transfected lysate using anti-NQO1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with NQO1 MaxPab rabbit polyclonal antibody.

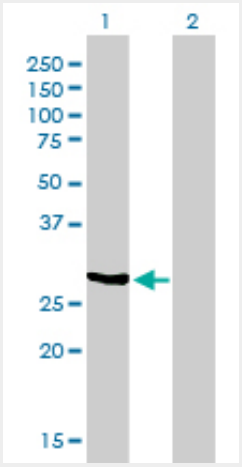


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Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.88 KDa) .

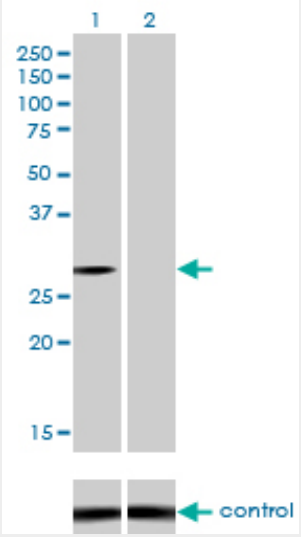


NQO1 monoclonal antibody (M01), clone 1E3-A6 Western Blot analysis of NQO1 expression in HepG2 ((Cat # AT3089a)

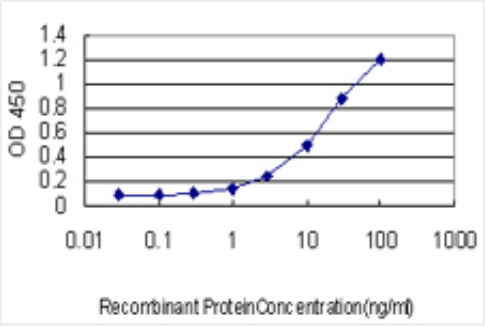


Western Blot analysis of NQO1 expression in transfected 293T cell line by NQO1 monoclonal antibody (M01), clone 1E3-A6.

Lane 1: NQO1 transfected lysate(30.9 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of NQO1 over-expressed 293 cell line, cotransfected with NQO1 Validated Chimera RNAi ((Cat # AT3089a)



Detection limit for recombinant GST tagged NQO1 is approximately 0.3ng/ml as a capture antibody.

NQO1 Antibody (monoclonal) (M01) - 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.

NQO1 Antibody (monoclonal) (M01) - References

Genetic Polymorphisms of CYP2E1, GSTP1, NQO1 and MPO and the Risk of Nasopharyngeal Carcinoma in a Han Chinese Population of Southern China. Guo X, et al. BMC Res Notes, 2010 Jul 27. PMID 20663217.Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.NAD(P)H quinone oxidoreductase protects TAp63gamma from proteasomal degradation and regulates TAp63gamma-dependent growth arrest. Hershkovitz Rokah O, et al. PLoS One, 2010 Jun 30. PMID 20613985.NAD(P)H:quinone oxidoreductase 1 (NQO1) Pro187Ser polymorphism and

colorectal cancer predisposition in the ethnic Kashmiri population. Sameer AS, et al. Asian Pac J Cancer Prev, 2010. PMID 20593958.