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NQO2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NQO2.
Catalog # AT3090a

Product Information

Application	WB, E
Primary Accession	P16083
Other Accession	BC006096
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3E8-G2
Calculated MW	25919

Additional Information

Gene ID	4835
Other Names	Ribosyldihydronicotinamide dehydrogenase [quinone], NRH dehydrogenase [quinone] 2, NRH:quinone oxidoreductase 2, Quinone reductase 2, QR2, NQO2, NMOR2
Target/Specificity	NQO2 (AAH06096.1, 1 a.a. ~ 231 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
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	NQO2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

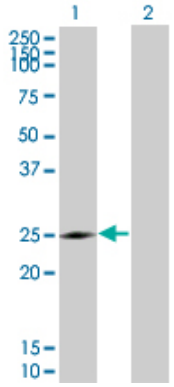
NQO2 (EC 1.10.99.2) is a flavoprotein that catalyzes the 2-electron reduction of various quinones, redox dyes, and the vitamin K menadione. NQO2 predominantly uses dihydronicotinamide riboside (NRH) as the electron donor (summary by Wu et al., 1997 [PubMed 9367528]).

References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Association of disease-predisposition

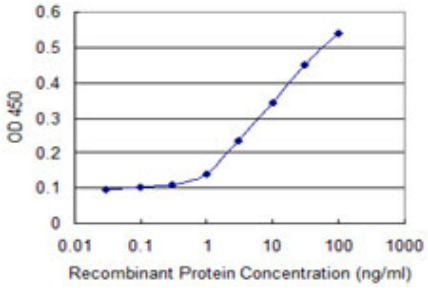
polymorphisms of the melatonin receptors and sunshine duration in the global human populations. Ji LD, et al. J Pineal Res, 2010 Mar. PMID 20050988.Nitric oxide synthase variants and disease-free survival among treated and untreated breast cancer patients in a Southwest Oncology Group clinical trial. Choi JY, et al. Clin Cancer Res, 2009 Aug 15. PMID 19671875.Caution regarding genotyping methodology for a tri-allelic polymorphism in the novel breast cancer susceptibility gene NQO2. Yu KD, et al. Breast Cancer Res Treat, 2009 Dec. PMID 19495956.Functional polymorphisms, altered gene expression and genetic association link NRH:quinone oxidoreductase 2 to breast cancer with wild-type p53. Yu KD, et al. Hum Mol Genet, 2009 Jul 1. PMID 19351655.

Images



Western Blot analysis of NQO2 expression in transfected 293T cell line by NQO2 monoclonal antibody (M01), clone 3E8-G2.

Lane 1: NQO2 transfected lysate(26 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged NQO2 is approximately 1ng/ml as a capture antibody.