BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NQO1/Dt Diaphorase Rabbit Monoclonal Antibody

Catalog Number: M00494

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Overview

Product Name	Anti-NQO1/Dt Diaphorase Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NQO1/Dt Diaphorase Rabbit Monoclonal Antibody catalog # M00494. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal AAOB-14
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P15559

Technical Details

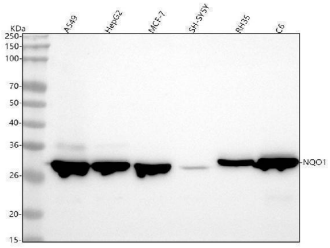
Immunogen	A synthesized peptide derived from human NQO1
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

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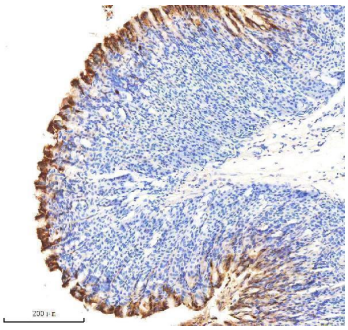
	IHC 1:50-200 ICC/IF 1:50-200 IP 1:20 FC 1:20

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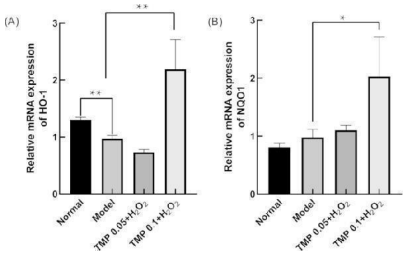
Anti-NQO1/Dt Diaphorase Rabbit Monoclonal Antibody (M00494) Images



Western blot analysis of NQO1 using anti-NQO1 antibody (M00494). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human SH-SY5Y lysates, Lane 5: rat RH35 whole cell lysates, Lane 6: rat C6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NQO1 antigen affinity purified monoclonal antibody (Catalog # M00494) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NQO1 at approximately 27,31 kDa. The expected band size for NQO1 is at 31 kDa.



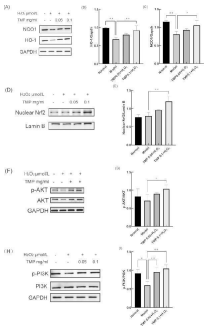
IHC analysis of NQO1 using anti-NQO1 antibody (M00494). NQO1 was detected in a paraffin-embedded section of mouse stomach tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-NQO1 Antibody (M00494) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



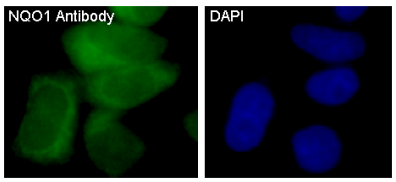
Effects of TMP on mRNA changes in HepG2 cells. (A) Changes in HO-1 mRNA after TMP (0.05, and 0.1 mg/mL) pre-protection. (B) Changes in NQO1 mRNA after TMP (0.05, and 0.1 mg/mL) pre-protection. (*P < 0.05, **P < 0.01) Index in PubMed under a CC BY license. PMID: 37046263

Effects of TMP on PI3K/AKT/Nrf2 signaling pathway in HepG2 cells. (A-C) Effects of TMP (0.05, and 0.1 mg/mL) on HO-1 and NQO1 proteins Changes in HepG2 cells. (D-E) Effects of TMP (0.05, and 0.1 mg/mL) on nuclear Nrf2 protein Changes in HepG2 cells. (F-I) Effects of TMP (0.05, and 0.1 mg/mL) on p-AKT and p-PI3K proteins Changes in HepG2 cells. (*P < 0.05, **P < 0.01) Index in PubMed under a CC BY license.

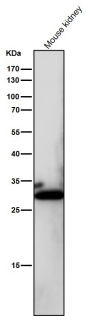
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Immunofluorescent analysis of MCF-7 cells, using NQO1 Antibody.



All lanes use the Antibody at 1:1w dilution for 1 hour at room temperature.

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For Research Use Only. Not for use in diagnostic procedures.