

Anti-NQO1 Antibody [13A1-R] - BSA and Azide free

HA610087



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 31 kDa
Clone number:	13A1-R

Description: NQO1, a 274 amino acid protein, is ubiquitously expressed, but the expression level varies among tissues. NQO1 gene expression is coordinately induced in response to xenobiotics, antioxidants, heavy metals and radiation. The antioxidant response element (ARE) in the NQO1 gene promoter is essential for expression and coordinated induction of NQO1. ARE activation by tert-butylhydroquinone is dependent on PI3-kinase, which lies upstream of Nrf2. Nrf2, c-Jun, Nrf1, Jun-B and Jun-D bind to the ARE and regulate expression and induction of NQO1 gene. Maf-Maf homodimers and possibly Maf-Nrf2 heterodimers play a role in negative regulation of ARE-mediated transcription, but Maf-Nrf1 heterodimers fail to bind with the NQO1 gene ARE and do not repress NQO1 transcription.

Immunogen: Recombinant protein within Human NQO1 aa 1-274 / 274.

Positive control: A549 cell lysate, SiHa cell lysate, HepG2 cell lysate, MCF7 cell lysate, HeLa cell lysate.

Subcellular location: Cytoplasm.

Database links: SwissProt: P15559 Human

Recommended Dilutions:

WB 1:2,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

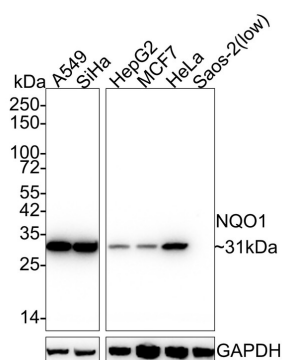
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of NQO1 on different lysates with Mouse anti-NQO1 antibody (HA610087) at 1/2,000 dilution.



Lane 1: A549 cell lysate
 Lane 2: SiHa cell lysate
 Lane 3: HepG2 cell lysate
 Lane 4: MCF7 cell lysate
 Lane 5: HeLa cell lysate
 Lane 6: Saos-2 cell lysate (low expression)

Lysates/proteins at 30 µg/Lane.

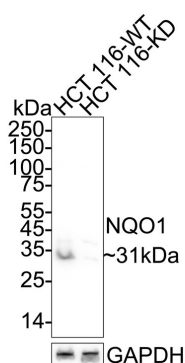
Predicted band size: 31 kDa
 Observed band size: 31 kDa

Exposure time: 24 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFD/MTBST for 1 hour at room temperature. The primary antibody (HA610087) at 1/2,000 dilution was used in 5% NFD/MTBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of NQO1 on different lysates with Mouse anti-NQO1 antibody (HA610087) at 1/2,000 dilution.



Lane 1: HCT 116-si NT cell lysate
 Lane 2: HCT 116-si NQO1 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 31 kDa
 Observed band size: 31 kDa

Exposure time: 3 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFD/MTBST for 1 hour at room temperature. The primary antibody (HA610087) at 1/2,000 dilution was used in 5% NFD/MTBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Jaiswal A K et al. Human NAD(P)H:quinone oxidoreductase (NQO1) gene structure and induction by dioxin. *Biochemistry* 30:10647-10653 (1991).
2. Guryanova O A et al. Actin cytoskeleton remodeling by the alternatively spliced isoform of PDLIM4/RIL protein. *J Biol Chem* 286:26849-26859 (2011).

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