

NQO1 Monoclonal Antibody (A180)

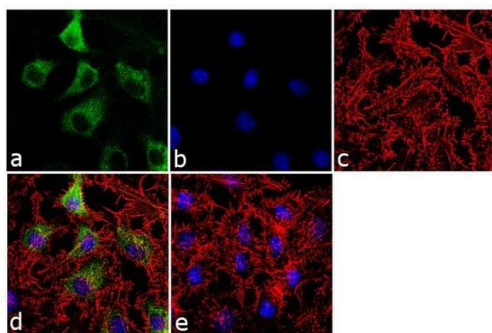
Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Non-human primate, Rat
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	A180
Conjugate	Unconjugated
Immunogen	Recombinant human NQO1 protein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533410

Applications	Tested Dilution	Publications
Western Blot (WB)	2-4 µg/mL	6 Publications
Immunohistochemistry (IHC)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication

Product Images For NQO1 Monoclonal Antibody (A180)

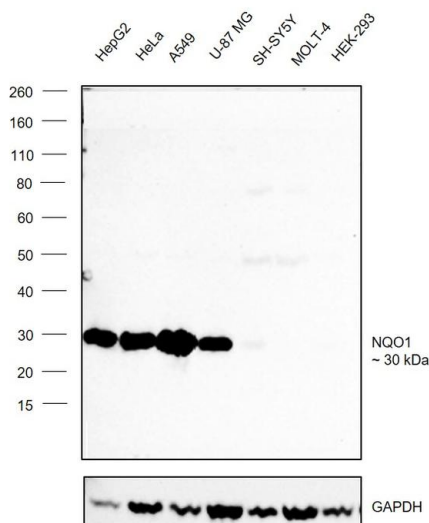
NQO1 Antibody (39-3700) in ICC/IF

Immunofluorescence analysis of NQO1 was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with NQO1 (A180) Mouse Monoclonal Antibody (Product # 39-3700) at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



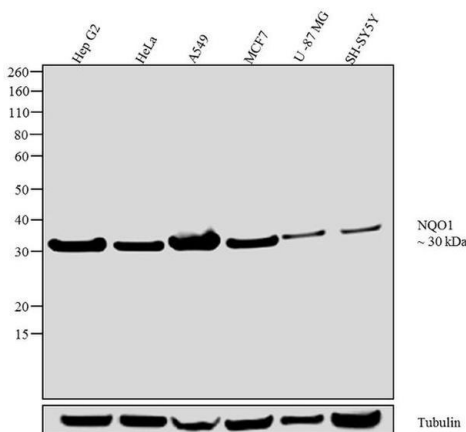
NQO1 Antibody (39-3700)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of NQO1 was observed in HepG2, HeLa, A549, U-87 MG and SH-SY5Y in comparison to MOLT-4 and HEK-293 using NQO1 Monoclonal Antibody (A180), (Product # 39-3700) in Western Blot. {RE}



NQO1 Antibody (39-3700) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of Hep G2 (Lane 1), HeLa (Lane 2), A549 (Lane 3), MCF7 (Lane 4), U-87 MG (Lane 5), SH-SY5Y (Lane 6). The blot was probed with Anti-NQO1 Mouse Monoclonal Antibody (Product # 39-3700, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A ~30 kDa band corresponding to NQO1 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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7 References

Western Blot (6)

Journal of experimental & clinical cancer research : CR

A ruthenium(II)-curcumin compound modulates NRF2 expression balancing the cancer cell death/survival outcome according to p53 status.

"39-3700 was used in Western Blotting to evaluate NRF2 and p53 in several cancer cell lines carrying different endogenous p53 status, using a novel curcumin compound since curcumin has been shown to target both NRF2 and p53 and have anti-tumor activity."

Authors: Garufi A,Baldari S,Pettinari R,Gilardini Montani MS,D'Orazi V,Pistritto G,Crispini A,Giorno E,Toietta G, Marchetti F,Cirone M,D'Orazi G

Species
Human
Not Applicable

Dilution
1:1000
Not Cited

Year
2020

Nature communications

NQO1 inhibits proteasome-mediated degradation of HIF-1.

"393700 was used in western blot to describe a function for NQO1 in stabilizing HIF-1alpha"

Authors: Oh ET, Kim JW, Kim JM, Kim SJ, Lee JS, Hong SS, Goodwin J, Ruthenborg RJ, Jung MG, Lee HJ, Lee CH, Park ES, Kim C, Park HJ

Species
Human

Dilution
1:1000

Year
2016

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Immunoprecipitation (1)

The Journal of biological chemistry

Interaction of human NAD(P)H:quinone oxidoreductase 1 (NQO1) with the tumor suppressor protein p53 in cells and cell-free systems.

Authors: Anwar A, Dehn D, Siegel D, Kepa JK, Tang LJ, Pietenpol JA, Ross D

Species
Human

Dilution
Not Cited

Year
2003

More applications with references on thermofisher.com

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