

# NQO1 Monoclonal Antibody (A180)

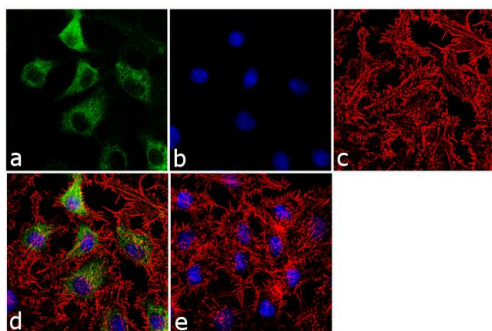
Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Non-human primate, Rat
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	A180
Conjugate	Unconjugated
Immunogen	Recombinant human NQO1 protein
Form	Liquid
Concentration	0.5 mg/mL
Purification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

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	2-4 µg/mL	5 Publications
Immunoprecipitation (IP)	✓	Assay Dependent	1 Publication
Immunocytochemistry (ICC)	✓	2 µg/mL	
Immunofluorescence (IF)	✓	2 µg/mL	
Immunohistochemistry (IHC)	✓	Assay Dependent	

## Product Images For NQO1 Monoclonal Antibody (A180)

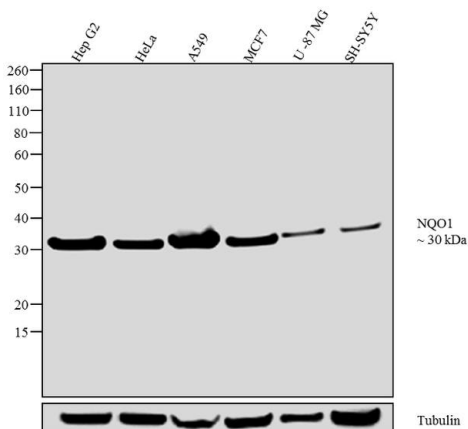
### NQO1 Antibody (39-3700) in IF

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 2 µg/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) 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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## 6 References

### Western Blot (5)

#### 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

#### Scientific reports

#### Novel high throughput pooled shRNA screening identifies NQO1 as a potential drug target for host directed therapy for tuberculosis.

"39-3700 was used in western blot to identify a potential drug target for host directed therapy for tuberculosis, NQO1, by a novel high throughput pooled shRNA screening method"

Authors: Li Q, Karim AF, Ding X, Das B, Dobrowolski C, Gibson RM, Quiñones-Mateu ME, Karn J, Rojas RE

**Species**  
Not Applicable

**Dilution**  
Not Cited

**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

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