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Product datasheet for LY300379

NQO2 Human Knockdown Lysate

Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated NQO2 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	N-Ribosyldihydronicotinamide:Quinone Dehydrogenase 2; QR2; N-Ribosyldihydronicotinamide:Quinone Reductase 2; NRH:Quinone Oxidoreductase 2; Quinone Reductase 2; NMOR2; DHQV; DIA6; Ribosyldihydronicotinamide Dehydrogenase [Quinone]; NAD(P)H Quinone Dehydrogenase 2; NAD(P)H Menadione Oxidoreductase-1, Dioxin-Inducible-2; NAD(P)H Menadione Oxidoreductase 2, Dioxin-Inducible; Ribosyldihydronicotinamide Dehydrogenase; NAD(P)H Dehydrogenase, Quinone 2; NRH Dehydrogenase [Quinone] 2; EC 1.10.5.1
Predicted MW:	26 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug NQO2 KD HeLa cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	4835
UniProt ID:	P16083

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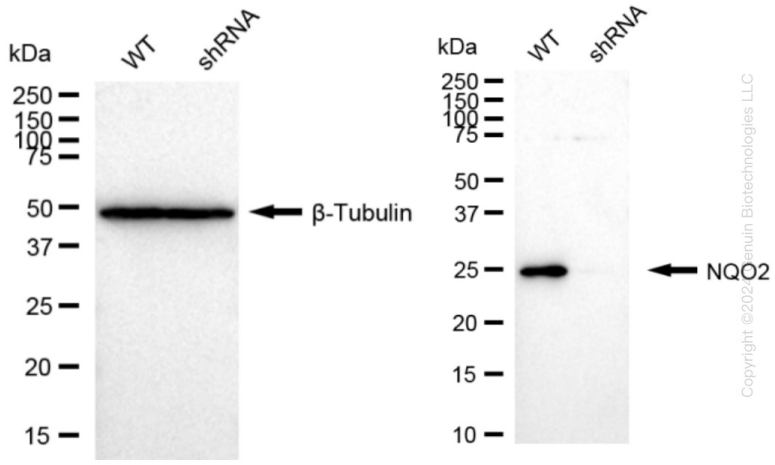
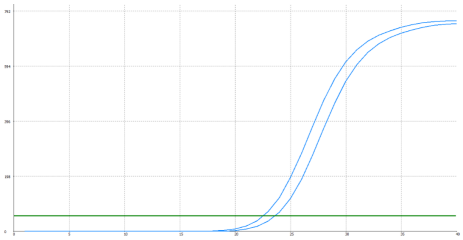
Product images:



Western blotting analysis. NQO2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against NQO2 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	22.48
Knock-Down	23.50
ΔCt (Ct_{KD}-Ct_{WT})	1.02
% mRNA Reduction	⬇ 51%

RT-qPCR analysis. HeLa cells were infected with NQO2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.