

Product datasheet for **LY300252**

NDUFS3 Human Knockdown Lysate

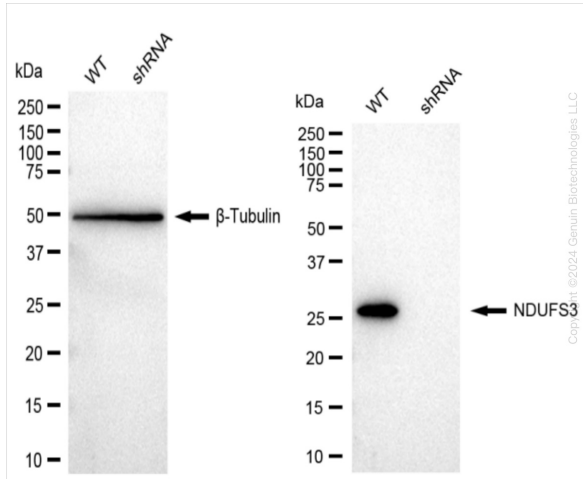
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated NDUFS3 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	NDUFS3; NADH:Ubiquinone Oxidoreductase Core Subunit S3; NADH Dehydrogenase [Ubiquinone] Iron-Sulfur Protein 3, Mitochondrial; CI-30; NADH Dehydrogenase (Ubiquinone) Fe-S Protein 3, 30kDa (NADH-Coenzyme Q Reductase); NADH-Ubiquinone Oxidoreductase 30 KDa Subunit; Complex I 30kDa Subunit; Complex I-30kD; CI-30kD; NADH Dehydrogenase (Ubiquinone) Fe-S Protein 3 (30kD) (NADH-Coenzyme Q Reductase); NADH Dehydrogenase-Ubiquinone 30 KDa Subunit; EC 1.6.99.5; EC 7.1.1.2; MC1DN8
Predicted MW:	30 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug NDUFS3 KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	4722
UniProt ID:	<u>O75489</u>
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

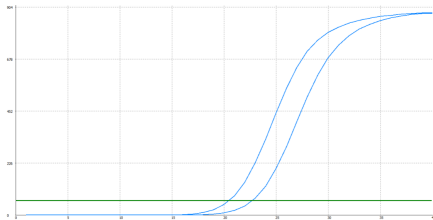


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Product images:



Western blotting analysis. NDUFS3 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 (Cat#61193, 1:5,000) against NDUFS3 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).



Genotype	Ct Value
Wild-Type	20.45
Knock-Down	22.68
ΔCt ($Ct_{KD} - Ct_{WT}$)	2.23
% mRNA Reduction	↓ 79%

RT-qPCR analysis. HeLa cells were infected with NDUFS3-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt ($Ct_{KD} - Ct_{WT}$) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.