

Product datasheet for **LY300003**

FOXO4 Human Knockdown Lysate

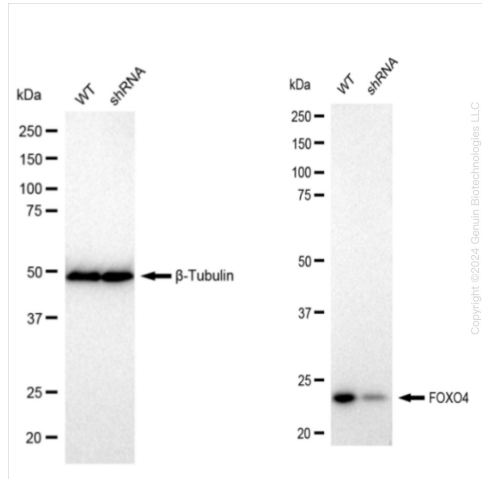
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated FOXO4 Knockdown 293T Cell Lysate
Species:	Human
Expression Host:	293T
Tag:	Tag Free
Synonyms:	FOXO4; Forkhead Box O4; AFX1; MLLT7; Myeloid/Lymphoid Or Mixed-Lineage Leukemia (Trithorax Homolog, Drosophila); Translocated To, 7 2 3; Fork Head Domain Transcription Factor AFX1; Forkhead Box Protein O4; AFX; Myeloid/Lymphoid Or Mixed-Lineage Leukemia (Trithorax (Drosophila) Homolog); Translocated To, 7
Predicted MW:	54 kDa
Components:	1 vial of 100 ug WT 293T cell lysate 1 vial of 100 ug FOXO4 KD 293T cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	4303
UniProt ID:	<u>P98177</u>
Protein Families:	Transcription Factors

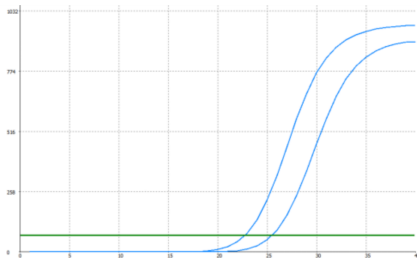


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Product images:



Western blotting analysis. FOXO4 protein expression in wild-type (WT) and shRNA knockdown (KD) 293T cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies against FOXO4 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	22.69
Knock-Down	25.31
Δ Ct (Ct _{KD} -Ct _{WT})	2.62
% mRNA Reduction	↓ 84%

RT-qPCR analysis. 293T cells were infected with FOXO4-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (Ct_{KD}-Ct_{WT}) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$.