

Product datasheet for **LY300080**

Calreticulin (CALR) Human Knockdown Lysate

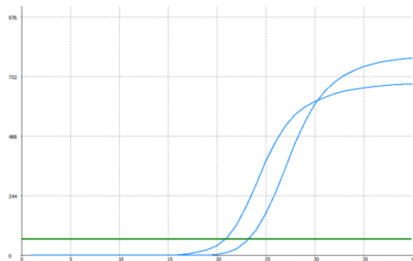
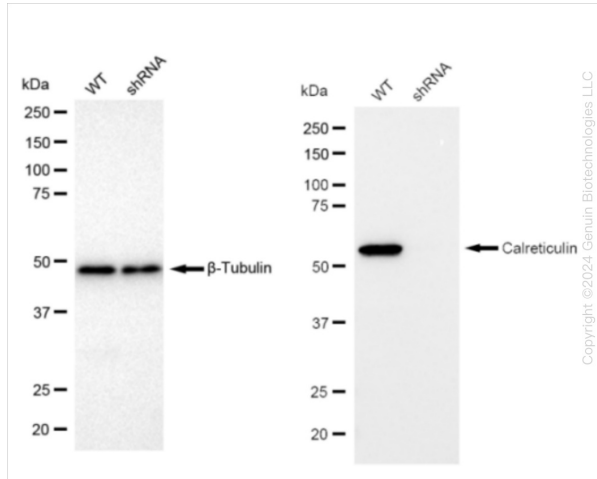
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated CALR Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	CALR; Calreticulin; Calregulin; CC1qR; SSA; CRT; RO; Sicca Syndrome Antigen A (Autoantigen Ro; Calreticulin); Endoplasmic Reticulum Resident Protein 60; FLJ26680; CALR1; CRP55; ERp60; HACBP; Grp60; Epididymis Secretory Sperm Binding Protein Li 99n; Autoantigen Ro; HEL-S-99n; CRTC
Predicted MW:	48 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug CALR KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	811
UniProt ID:	P27797
Protein Families:	Druggable Genome, Secreted Protein, Transcription Factors
Protein Pathways:	Antigen processing and presentation



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Product images:



Genotype	Ct Value
Wild-Type	20.31
Knock-Down	23.04
$\Delta Ct (Ct_{KD} - Ct_{WT})$	2.73
% mRNA Reduction	↓ 85%

Western blotting analysis. CALR 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#61146, 1:5,000) against CALR 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).

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