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Product datasheet for LY300010

GRP78 (HSPA5) Human Knockdown Lysate

Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated HSPA5 Knockdown 293T Cell Lysate
Species:	Human
Expression Host:	293T
Tag:	Tag Free
Synonyms:	HSPA5; Heat Shock Protein Family A (Hsp70) Member 5; GRP78; Heat Shock 70kDa Protein 5 (Glucose-Regulated Protein, 78kDa); Immunoglobulin Heavy Chain-Binding Protein; Heat Shock Protein 70 Family Protein 5; Heat Shock Protein Family A Member 5; Endoplasmic Reticulum Chaperone BiP; Glucose-Regulated Protein, 78kDa; 78 KDa Glucose-Regulated Protein; Binding-Immunoglobulin Protein; HSP70 Family Protein 5; BiP; BIP; Heat Shock 70kD Protein 5 (Glucose-Regulated Protein, 78kD); Endoplasmic Reticulum Lumenal Ca(2+)-Binding Protein Grp78; Epididymis Secretory Sperm Binding Protein Li 89n; EC 3.6.4.10; HEL-S-89n; GRP-78
Predicted MW:	72 kDa
Components:	1 vial of 100 ug WT 293T cell lysate 1 vial of 100 ug HSPA5 KD 293T cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	3309
UniProt ID:	P11021
Protein Families:	Druggable Genome
Protein Pathways:	Antigen processing and presentation, Prion diseases

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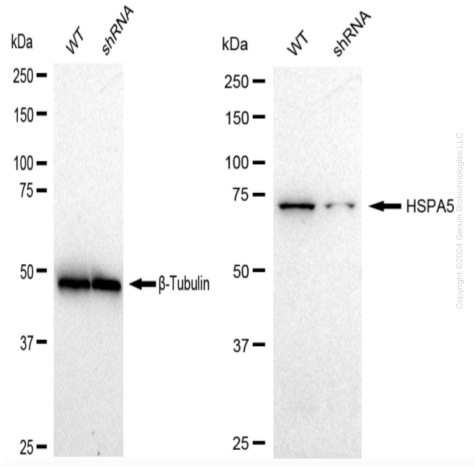
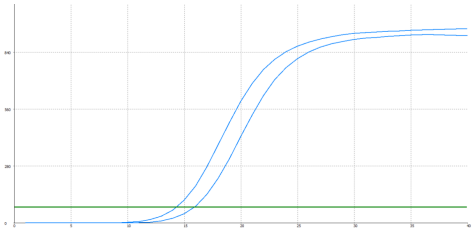
Product images:



Western blotting analysis. HSPA5 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 HSPA5 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	14.1
Knock-Down	15.55
ΔCt (Ct_{KD}-Ct_{WT})	1.45
% mRNA Reduction	⬇ 63%

RT-qPCR analysis. 293T cells were infected with HSPA5-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%.