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Product datasheet for LY300171

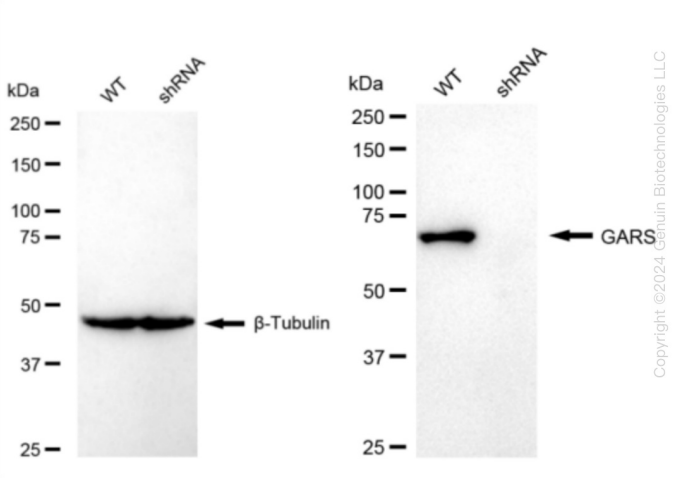
GARS1 Human Knockdown Lysate

Product data:

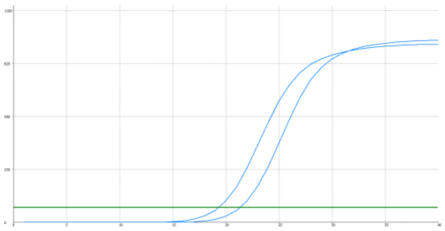
Product Type:	Knockdown Lysates
Description:	WB-validated GARS1 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	GARS1; Glycyl-TRNA Synthetase 1; GlyRS; DSMAV; SMAD1; GARS; Diadenosine Tetraphosphate Synthetase; Charcot-Marie-Tooth Neuropathy 2D; Glycyl-TRNA Synthetase; Glycine--TRNA Ligase; Ap4A Synthetase; EC 6.1.1.14; CMT2D; Charcot-Marie-Tooth Neuropathy, Neuronal Type, D; Glycine TRNA Ligase; AP-4-A Synthetase; EC 2.7.7.-; HMN5A; SMAJI; GLYRS; HMN5
Predicted MW:	#N/A
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug GARS1 KD HeLa cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	2617
UniProt ID:	P41250
Protein Pathways:	Aminoacyl-tRNA biosynthesis

View online »

Product images:



Western blotting analysis. GARS1 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 GARS1 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	19.08
Knock-Down	21.12
ΔCt (Ct_{KD}-Ct_{WT})	2.04
% mRNA Reduction	⬇ 76%

RT-qPCR analysis. HeLa cells were infected with GARS1-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%.