

Human GARS1 Knockdown Cell Lysate

Cat. No. GARS1-171HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated GARS1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)₂ dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Two transcript variants encoding different isoforms have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	#N/A
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific

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Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GARS1 KD HeLa cell lysate
Protein Pathways	Aminoacyl-tRNA biosynthesis
Lysate QC	RT-qPCR; Western Blotting (WB)
GENE INFORMATION	
Gene Name	GARS1 glycyl-tRNA synthetase 1 [Homo sapiens (human)]
Official Symbol	GARS1
Synonyms	GARS1; glycyl-tRNA synthetase 1; GARS; HMN5; CMT2D; DSMAV; GlyRS; HMN5A; HMND5; SMAD1; SMAJI; glycine--tRNA ligase; AP-4-A synthetase; Charcot-Marie-Tooth neuropathy 2D; Charcot-Marie-Tooth neuropathy, neuronal type, D; ap4A synthetase; diadenosine tetraphosphate synthetase; EC 6.1.1.14
Gene ID	2617
mRNA Refseq	NM_002047
Protein Refseq	NP_002038
MIM	600287
UniProt ID	P41250

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