Human GLS Knockdown Cell Lysate

Cat. No. GLS-176HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated GLS Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	73 kDa
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 GLS KD HeLa cell lysate
Protein Pathways	Alanine, Arginine and proline metabolism, aspartate and glutamate metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	GLS glutaminase [Homo sapiens (human)]
Official Symbol	GLS
Synonyms	GLS; glutaminase; glutaminase kidney isoform, mitochondrial; GLS1; KIAA0838; K-glutaminase; glutaminase C; L-glutamine amidohydrolase; glutaminase, phosphate-activated; GAC; GAM; KGA; AAD20; FLJ10358; FLJ41499; DKFZp686D14231; DKFZp686O15119;
Gene ID	2744
mRNA Refseq	NM_001256310
Protein Refseq	NP_001243239
MIM	138280
UniProt ID	O94925

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