

Human CBS Knockdown Cell Lysate

Cat. No. CBS-331HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated CBS Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	The protein encoded by this gene acts as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBS), which can lead to homocystinuria. This gene is a major contributor to cellular hydrogen sulfide production. Multiple alternatively spliced transcript variants have been found for this gene.
Form	Cell-Tissue Lysis buffer
Molecular Mass	61 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.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CBS KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Cysteine and methionine metabolism, Glycine, Metabolic pathways, Selenoamino acid metabolism, serine and threonine metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	CBS cystathionine-beta-synthase [Homo sapiens (human)]
Official Symbol	CBS
Synonyms	CBS; cystathionine-beta-synthase; cystathionine beta-synthase; HIP4; beta-thionase; serine sulfhydrase; methylcysteine synthase;
Gene ID	875
mRNA Refseq	NM_000071
Protein Refseq	NP_000062
MIM	613381
UniProt ID	P35520

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