

Human CTSD Knockdown Cell Lysate

Cat. No. CTSD-130HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated CTSD Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	<p>This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease.</p>
Form	Cell-Tissue Lysis buffer
Molecular Mass	45 kDa
Notes	<p>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.</p>
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 CTSD KD HeLa cell lysate
Protein Families	Druggable Genome, Protease
Protein Pathways	Lysosome
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	CTSD cathepsin D [Homo sapiens (human)]
Official Symbol	CTSD
Synonyms	CTSD; cathepsin D; cathepsin D (lysosomal aspartyl protease), CPSD; ceroid lipofuscinosis; neuronal 10; CLN10; lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10; CPSD; MGC2311;
Gene ID	1509
mRNA Refseq	NM_001909
Protein Refseq	NP_001900
MIM	116840
UniProt ID	P07339

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