Recombinant Human CTH 293 Cell Lysate

Cat. No. CTH-7204HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cystathionase (cystathionine gamma-lyase) (CTH), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CTH cystathionase (cystathionine gamma-lyase) [Homo sapiens]
Official Symbol	CTH
Synonyms	CTH; cystathionase (cystathionine gamma-lyase); cystathionine gamma-lyase; gamma-cystathionase; homoserine deaminase; cysteine desulfhydrase; homoserine dehydratase; cysteine-protein sulfhydrase; MGC9471;
Gene ID	1491
mRNA Refseq	NM_001190463
Protein Refseq	NP_001177392
MIM	607657
UniProt ID	P32929
Chromosome Location	1p31.1
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Cysteine biosynthesis, homocysteine + serine =>cysteine, organism-specific biosystem; Cysteine biosynthesis, homocysteine + serine => cysteine, conserved biosystem; Cysteine formation from

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	homocysteine, organism-specific biosystem;
Function	L-cysteine desulfhydrase activity; calmodulin binding; carbon-sulfur lyase activity; cystathionine beta-lyase activity; cystathionine gamma-lyase activity; cystathionine gamma-lyase activity; homocysteine desulfhydrase activity; pyridoxal phosphate binding;

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