

Product Name: KD-Validated Cystathionine Gamma-Lyase Mouse Monoclonal Antibody
Catalog #: KVA00697

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 44.5kDa

Antigen Information

Gene Name	CTH
Alternative Names	CTH; Cystathionine Gamma-Lyase; CSE; Cystathionase (Cystathionine Gamma-Lyase); Cysteine-Protein Sulfhydrase; Homocysteine Desulfhydrase; Cysteine Desulfhydrase; Gamma-Cystathionase; EC 4.4.1.1; CGL; Homoserine Dehydratase; Homoserine Deaminase; EC 4.4.1.2; EC 4.4.1
Gene ID	1491.0
SwissProt ID	P32929
Immunogen	Recombinant protein of human CTH

Background

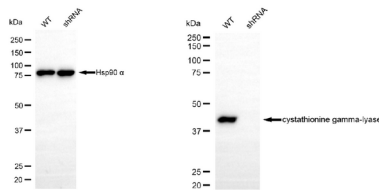
This gene encodes a cytoplasmic enzyme in the trans-sulfuration pathway that converts cystathione derived from methionine

into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in this gene cause cystathioninuria. Alternative splicing of this gene results in three transcript variants encoding different isoforms. [provided by RefSeq, Jun 2010]

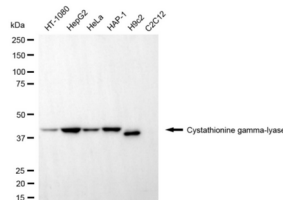
Research Area

Signal Transduction, Metabolism

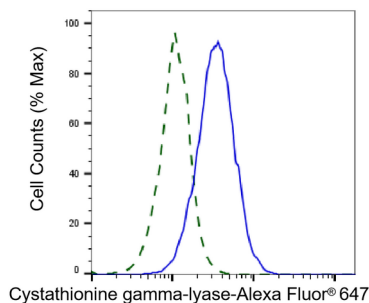
Image Data



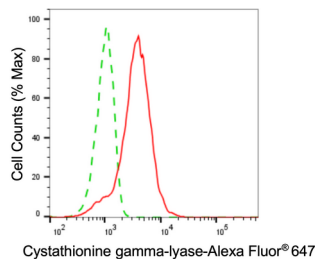
Western blotting analysis using cystathionine gamma-lyase antibody (KVA00697). Cystathionine gamma-lyase expression in wild type (WT) and cystathionine gamma-lyase (CTH) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cystathionine gamma-lyase antibody (KVA00697, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using cystathionine gamma-lyase antibody (KVA00697). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cystathionine gamma-lyase antibody (KVA00697, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of Cystathionine gamma-lyase knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Cystathionine gamma-lyase antibody (KVA00697, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Cystathionine gamma-lyase expression in HepG2 cells using Cystathionine gamma-lyase antibody (KVA00697, 1:2,000). Green, isotype control; red, Cystathionine gamma-lyase.