

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-Gamma Cystathionase

Numéro de catalogue: 12217-1-AP

Phare

172 Publications



Informations de base

Numéro de catalogue:	BC015807	Méthode de purification:
12217-1-AP		Purification par affinité contre l'antigène
Taille:	1491	Dilutions recommandées:
150ul , Concentration: 550 µg/ml by Nanodrop;		WB 1:1000-1:4000
Hôte:	cystathionase (cystathionine gamma-lyase)	IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Lapin	MW calculé	IHC 1:100-1:500
Isotype:	405 aa, 45 kDa	IF 1:200-1:800
IgG	MW observés:	
Immunogen Catalog Number:	40-45 kDa	
AG2872		

Applications

Applications testées:	FC, IF, IHC, IP, WB, ELISA	Contrôles positifs:
Demandes citées:	Cell treatment, ColP, IF, IHC, IP, WB	WB : tissu rénal de souris, cellules HEK-293, cellules HeLa, cellules HepG2, tissu cardiaque de rat, tissu cardiaque de souris, tissu hépatique de rat, tissu hépatique de souris, tissu rénal de rat
Spécificité de l'espèce:	Humain, rat, souris	IP : tissu hépatique de souris,
Espèces citées:	Humain, Lapin, rat, souris	IHC : tissu de cancer du foie humain, tissu de cancer du sein humain, tissu rénal humain
Remarque-IHC: <i>il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, 'le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.</i>		IF : tissu de cancer du foie humain, cellules HepG2

Informations générales

CTH, also named as Gamma-cystathionase and CSE, belongs to the transsulfuration enzymes family. It catalyzes the last step in the transsulfuration pathway from methionine to cysteine. CTH converts two cysteine molecules to lanthionine and hydrogen sulfide. CTH can also accept homocysteine as substrate. Its specificity depends on the levels of the endogenous substrates. CTH is the major H2S-producing enzyme in kidney, liver, vascular smooth muscle cells and enterocytes. The endogenous production of H2S plays a significant role in the regulation of cellular functions, including cell growth, hyperpolarization of cell membranes, modulation of neuronal excitability and relaxation of smooth muscle cells. The CSE/H2S pathway is upregulated in the heart in a murine model of CVB3-induced myocarditis and that inhibition of endogenous H2S is beneficial to treatment early in the disease while administration of exogenous H2S is protective to infected myocardium during the later stage. Mutations in the gene encoding CTH can result in the autosomal recessive disease cystathioninuria; a disorder characterized by the unusual accumulation of plasma cystathione causing increased urinary excretion. Both male and female CTH-null mice showed hypercystathioninemia and hyperhomocysteinemia, but not hypermethioninemia. CSE has also been reported to be expressed in endothelial cells and contribute to endothelium-dependent vasorelaxation. It can be detected a minor 36 kDa band probably representing a degradative intermediate except the major 43 kDa band in vitamin B6-deficient rat liver (PMID: 8660672). CTH also can be detected as ~70kD in rat liver (PMID: 18974309). This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human CTH.

Publications notables

Autrice	Pubmed ID	Journal	Application
Yu Sun	34562065	J Cell Mol Med	WB
Lissette Carolina Sanchez-Aranguren	32978411	Sci Rep	WB
Pilar González-García	32975579	Hum Mol Genet	WB

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20°C

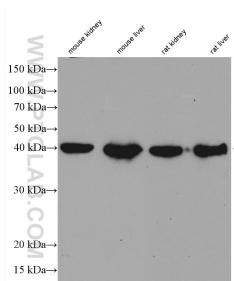
*** Les 20ul contiennent 0,1% de BSA.

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

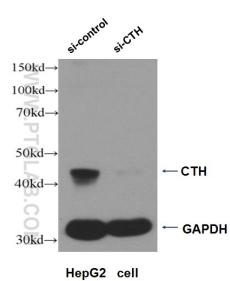
E: proteintech@ptglab.com
W: ptglab.com

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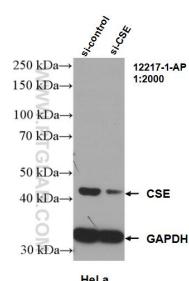
Données de validation sélectionnées



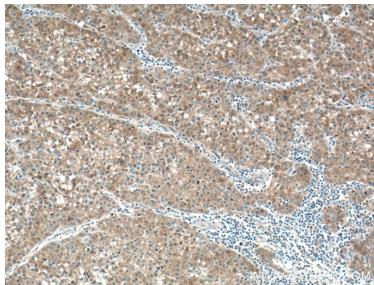
Various lysates were subjected to SDS PAGE followed by western blot with 12217-1-AP (Gamma cystathionase antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



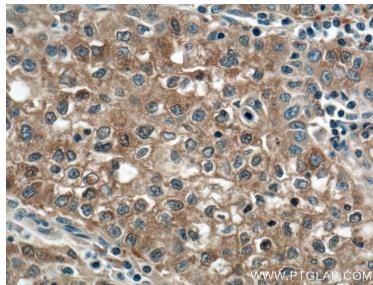
WB result of CTH antibody (12217-1-AP, 1:500) with si-control and si-CTH transfected HepG2 cell.



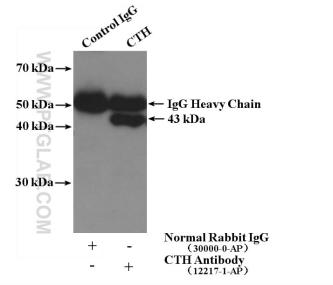
WB result of Gamma cystathionase antibody (12217-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Gamma cystathionase transfected HeLa cells.



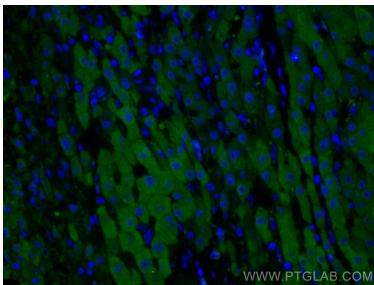
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12217-1-AP (Gamma cystathionase antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



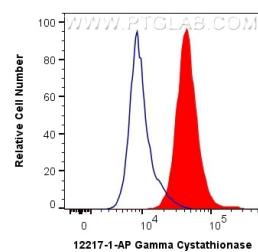
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12217-1-AP (Gamma cystathionase antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Gamma cystathionase (IP:12217-1-AP, 4ug; Detection:12217-1-AP 1:600) with mouse liver tissue lysate 4000 ug.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Gamma Cystathionase antibody (12217-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human Gamma Cystathionase (12217-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).