

À des fins de recherche uniquement

Anticorps Monoclonal anti-Gamma Cystathionase



Numéro de catalogue: 60234-1-Ig

Phare

22 Publications

Informations de base

Numéro de catalogue:	BC015807	Méthode de purification:
60234-1-Ig	Purification par protéine A	
Taille:	Identification du gène (NCBI):	CloneNo.:
150ul , Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	1491	2C7F9
Hôte:	Nom complet:	Dilutions recommandées:
Mouse	cystathionase (cystathione gamma-WB 1:5000-1:50000 lyase)	IHC 1:200-1:800
Isotype:	MW calculé	IF 1:20-1:200
IgG1	405 aa, 45 kDa	
Immunogen Catalog Number:	MW observés:	
AG2872	40-45 kDa	

Applications

Applications testées:	Contrôles positifs:
IF, IHC, WB, ELISA	WB : cellules LNCaP, cellules A431, cellules HEK-293, cellules HeLa, cellules HepG2, cellules HSC-T6, cellules K-562, cellules NIH/3T3, cellules PC-3
Demandes citées:	IHC : tissu de cancer du poumon humain, tissu de cancer du foie humain
IF, IHC, WB	IF : cellules HepG2,
Spécificité de l'espèce:	
Humain, rat, souris	
Espèces citées:	
canin, Humain, rat, souris	
<i>Remarque-IHC: 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>	

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).

Publications notables

Autrice	Pubmed ID	Journal	Application
Lara Testai	27616550	Pharmacol Res	WB
Xubo Chen	29038536	Sci Rep	WB
Elisabetta Panza	35605291	Biomed Pharmacother	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

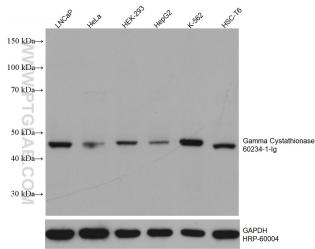
*** Les 20ul contiennent 0,1% de BSA.

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)

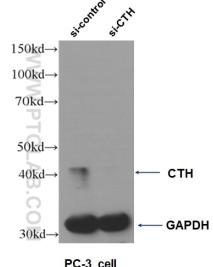
E: proteintech@ptglab.com
W: ptglab.com

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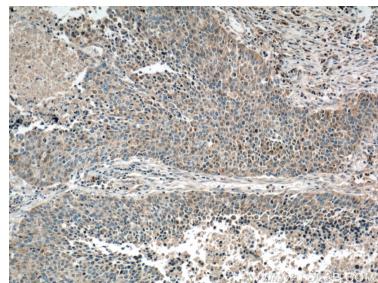
Données de validation sélectionnées



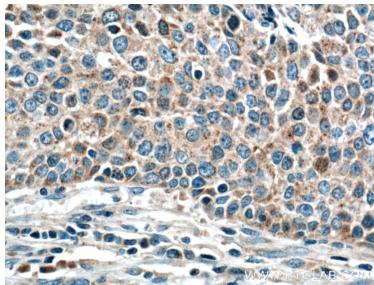
Various lysates were subjected to SDS PAGE followed by western blot with 60234-1-Ig (Gamma Cystathionase antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



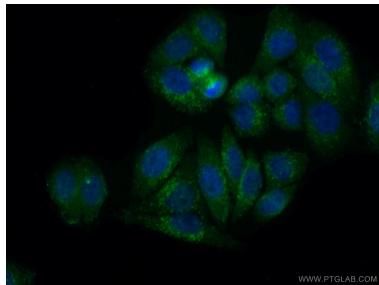
WB result of CTH antibody (60234-1-Ig, 1:500) with si-control and si-CTH transfected PC-3 cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60234-1-Ig (Gamma cystathionase antibody at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60234-1-Ig (Gamma cystathionase antibody at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 60234-1-Ig (Gamma cystathionase antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).