Gamma Cystathionase Polyclonal antibody

Catalog Number:12217-1-AP

Featured Product

207 Publications



Basic Information	Catalog Number: 12217-1-AP	GenBank Accession BC015807	Number:	Purification Method: Antigen affinity purification	
	Concentration: 550 ug/ml	GeneID (NCBI): 1491 UNIPROT ID: P32929 Full Name: cystathionase (cystathionine gamma lyase)		Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:500	
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2872				
					Calculated MW: 405 aa, 45 kDa
		Observed MW: 40-45 kDa			
		Applications	WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity: human, mouse, rat Cited Species:		Positive Cont
WB : HEK-293 cells, HeLa cells, HepG2 cells, mouse heart tissue, mouse kidney tissue, mouse liver tissue rat heart tissue, rat liver tissue, rat kidney tissue					
IP : mouse liver tissue,					
IHC : human liver cancer tissue, human breast cancer tissue, human kidney tissue					
human, mouse, rat, pig, rabbit Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			IF-P : human liver cancer tissue,		
			IF/ICC : HepG	2 cells,	
Background Information	last step in the transsulfuration pa lanthionine and hydrogen sulfide. levels of the endogenous substrate muscle cells and enterocytes. The functions, including cell growth, hy relaxation of smooth muscle cells induced myocarditis and that inhil administration of exogenous H2S encoding CTH can result in the aut unusual accumulation of plasma c mice showed hypercystathioninen reported to be expressed in endoth detected a minor 36 kDa band prol	thway from methionine CTH can also accept hor es. CTH is the major H2S endogenous production yperpolarization of cell r . The CSE/H2S pathway i bition of endogenous H2 is protective to infected cosomal recessive diseas cystathionine causing inc mia and hyperhomocyste helial cells and contribut bably representing a deg D:8660672). CTH also cau	to cysteine. CTH mocysteine as sub -producing enzyn of H2S plays a sig membranes, mod is upregulated in S is beneficial to myocardium duri se cystathioninuri creased urinary ex einemia, but not h te to endothelium gradative interme n be detected as	converts two cysteine molecules to ostrate. It specificity depends on the ne in kidney, liver, vascular smooth mificant role in the regulation of cellula ulation of neuronal excitability and the heart in a murine model of CVB3- treatment early in the disease while ng the later stage. Mutations in the gen a; a disorder characterized by the accretion. Both male and female CTH-nu ypermethioninemia. CSE has also beer -dependent vasorelaxation. It can be diate except the major 43 kDa band in 70kD in rat liver (PMID: 18974309). This	
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Storage:

Aranguren

Lissette Carolina Sanchez-

Pilar González-García

Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage

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32975579

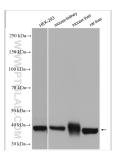
Sci Rep

Hum Mol Genet

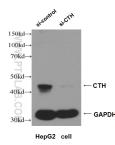
WB

WB

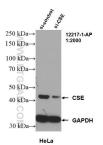
Selected Validation Data



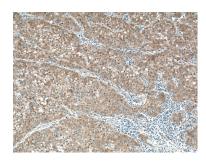
Various lysates were subjected to SDS PAGE followed by western blot with 12217-1-AP (Gamma Cystathionase antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



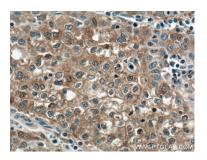
WB result of CTH antibody (12217-1-AP, 1:500) with si-control and si-CTH transfected HepG2 cell.



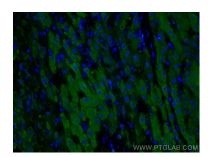
WB result of Gamma cystathionase antibody (12217-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Gamma cystathionase transfected HeLa cells.



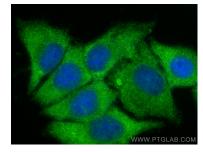
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 12217-1-AP (Gamma cystathionase antibody at dilution of 1:200 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



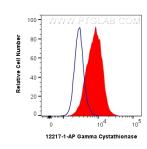
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 12217-1-AP (Gamma cystathionase antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



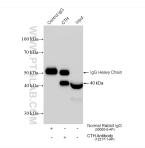
Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Gamma Cystathionase antibody (12217-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Gamma Cystathionase antibody (12217-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 MCF-7 cells were intracellularly stained with 0.8 ug Gamma Cystathionase Polyclonal antibody (12217-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-Gamma Cystathionase (IP:12217-1-AP, 4ug; Detection:12217-1-AP 1:8000) with mouse liver tissue lysate 1840 ug.