

For Research Use Only

CBS Polyclonal antibody

Catalog Number: 14787-1-AP

Featured Product

98 Publications



Basic Information

Catalog Number:

14787-1-AP

Size:

150ul, Concentration: 700 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6437

GenBank Accession Number:

BC000440

GeneID (NCBI):

875

UNIPROT ID:

P35520

Full Name:

cystathionine-beta-synthase

Calculated MW:

61 kDa

Observed MW:

61-63 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

IF 1:50-1:500

Applications

Tested Applications:

WB, IP, IF, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, Rabbit, canine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, rat liver tissue, mouse brain tissue, HeLa cells, mouse kidney tissue, rat brain tissue, rat kidney tissue, mouse colon tissue, HepG2 cells, LNCaP cells, MCF-7 cells, SKOV-3 cells, THP-1 cells

IP : mouse kidney tissue,

IHC : human pancreas cancer tissue, human colon tissue

IF : HeLa cells,

Background Information

The CBS gene encodes cystathionine beta-synthase, which catalyzes the first irreversible step of transsulfuration. The CBS enzyme is a homotetramer of 63-kD subunits and requires pyridoxal phosphate and heme for activity(PMID:11230183). CBS protein is localized in most areas of the brain, but predominantly in the cell bodies and neuronal processes of Purkinje cells and Ammon's horn neurons(PMID:12588964).

Notable Publications

Author	Pubmed ID	Journal	Application
Pilar González-García	32975579	Hum Mol Genet	WB
Shanwen Chen	31542354	Cancer Lett	WB,IHC,IF
Ches'Nique M Phillips	28923859	Cancer Res	WB,IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

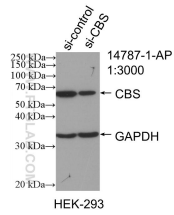
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

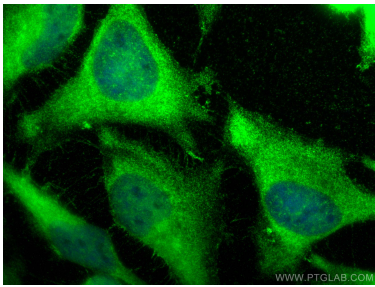
E: proteintech@ptglab.com
W: ptglab.com

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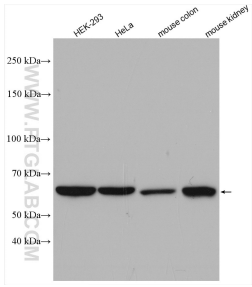
Selected Validation Data



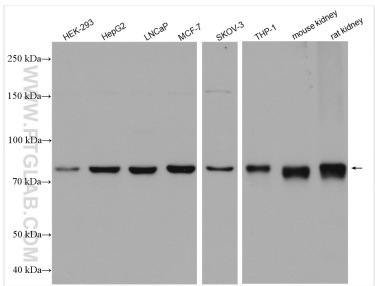
WB result of CBS antibody (14787-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CBS transfected HEK-293 cells.



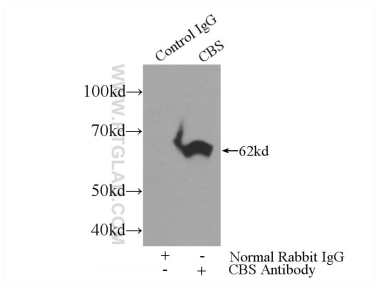
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CBS antibody (14787-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



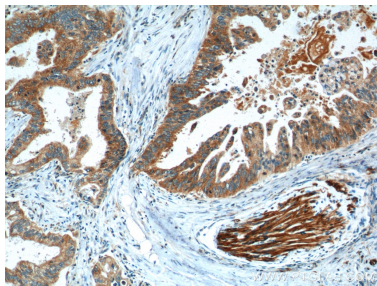
Various lysates were subjected to SDS PAGE followed by western blot with 14787-1-AP (CBS antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



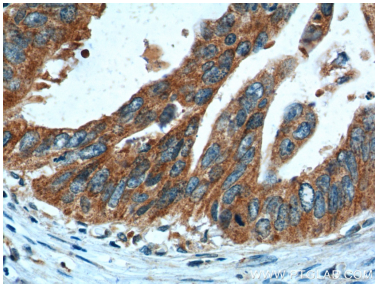
Various lysates were subjected to SDS PAGE followed by western blot with 14787-1-AP (CBS antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-CBS (IP:14787-1-AP, 3ug; Detection:14787-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 14787-1-AP (CBS 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 pancreas cancer tissue slide using 14787-1-AP (CBS Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).