

For Research Use Only

GCSH Polyclonal antibody

Catalog Number: 16726-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

16726-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 360 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10174

GenBank Accession Number:

BC000790

GeneID (NCBI):

2653

UNIPROT ID:

P23434

Full Name:

glycine cleavage system protein H (aminomethyl carrier)

Calculated MW:

19 kDa

Observed MW:

15 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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, HeLa cells, human liver tissue, mouse brain tissue, mouse kidney tissue

IP: mouse kidney tissue,

IHC: human ovary cancer tissue, human kidney tissue, human liver tissue, human ovary tissue, human skin tissue, rat ovary tissue

IF/ICC: MCF-7 cells, HepG2 cells

Background Information

GCSH (Glycine cleavage system H protein, mitochondrial) is a component of the glycine cleavage system loosely associated with the mitochondrial inner membrane and has lipoic acid as a prosthetic group. The full-length GCSH cDNA encodes a precursor protein of 173 amino acids and a mature protein of 125 amino acids. The lipoylation of H-protein occurs in mitochondria which probably contain an activated form of lipoic acid as well as other components required for the transfer of lipoic acid to the protein (PMID:2211640). Defects in GCSH are a cause of non-ketotic hyperglycinemia (NKH).

Notable Publications

Author	Pubmed ID	Journal	Application
Shengya Tian	31562192	Life Sci Alliance	WB
Anna Adamus	30337557	Sci Rep	WB, IHC, IF
Rebecca M Simmons	33057941	Amino Acids	WB

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)

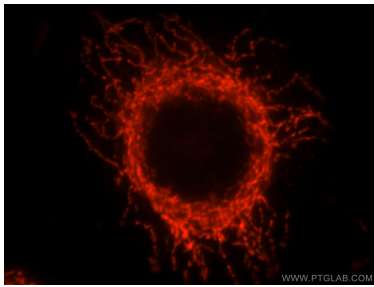
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

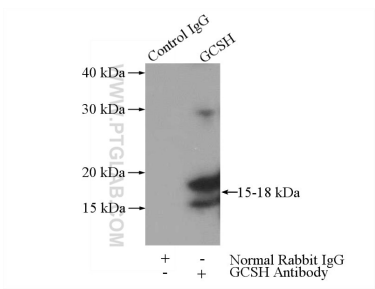
Selected Validation Data



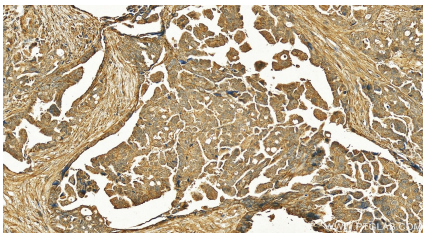
HEK-293 cells were subjected to SDS PAGE followed by western blot with 16726-1-AP (GCSH antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of MCF-7 cells, using GCSH antibody 16726-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-GCSH (IP:16726-1-AP, 3ug; Detection:16726-1-AP 1:1000) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 16726-1-AP (GCSH antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).