For Research Use Only

GGH Polyclonal antibody

Catalog Number:13264-1-AP 3 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
13264-1-AP

Size:
700 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3939

GenBank Accession Number:
BC025025

GeneID (NCBI):
8836

UNIPROT ID:
Q92820

Full Name:
gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase)

Calculated MW:
318 aa, 36 kDa

Observed MW:
30-37 kDa, 55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:5000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:500

Applications

Tested Applications:
IHC, IP, WB,ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human

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 : HL-60 cells, MCF-7 cells, HepG2 cells, HT-1080 cells

IP : HepG2 cells,

IHC : human kidney tissue,

Background Information

GGH (Gamma glutamyl hydrolase), also named as GH or Conjugase, is a key lysosomal enzyme involved in the metabolism of folic acid and in the action of antifolate drugs (PMID: 16945597). GGH catalyzes the removal of γ-linked polyglutamates from the intracellular folylpolyglutamates to yield folylmonoglutamate coenzymes (PMID: 9614206). The full-length protein has a calculated molecular mass of 36 kDa, contains four potential asparagine glycosylation sites, and was predicted to have a 24-amino-acid signal peptide (PMID: 8816764). GGH can form homodimer which contains two potential active sites (PMID: 16945597). Some bands can be detected by SDS-PAGE: 35-37kDa (full-length), 55kDa (glycosylated form) and 30-33kDa (signal peptide removed) (PMID: 8621474).

Notable Publications

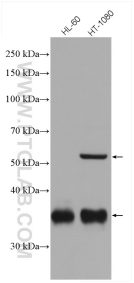
Author	Pubmed ID	Journal	Application
Xiaochao Tan	38662435	J Clin Invest	WB
Yao Chen	38259297	Front Pharmacol	WB
Cheng Zhu	37798609	Reprod Sci	IHC,IF

Storage

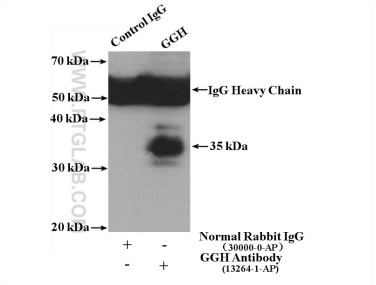
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

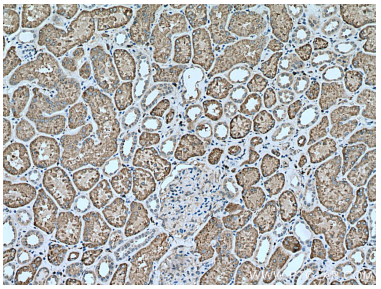
Selected Validation Data



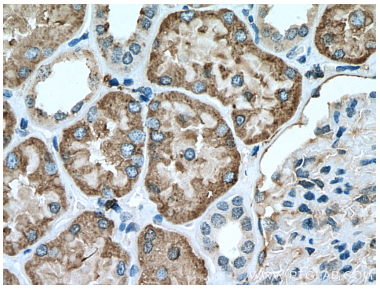
Various lysates were subjected to SDS PAGE followed by western blot with 13264-1-AP (GGH antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-GGH (IP:13264-1-AP, 4ug; Detection:13264-1-AP 1:500) with HepG2 cells lysate 5600 ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 13264-1-AP (GGH 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 kidney tissue slide using 13264-1-AP (GGH antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).