

For Research Use Only

# GGH Polyclonal antibody

Catalog Number: 13264-1-AP

2 Publications



## Basic Information

<b>Catalog Number:</b> 13264-1-AP	<b>GenBank Accession Number:</b> BC025025	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8836	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>Full Name:</b> gamma-glutamyl hydrolase (conjugase, foylpolygammaglutamyl hydrolase)	<b>IHC 1:100-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 318 aa, 36 kDa	
<b>Immunogen Catalog Number:</b> AG3939	<b>Observed MW:</b> 30-37 kDa, 55 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HL-60 cells, MCF-7 cells, HepG2 cells, HT-1080 cells
<b>Cited Applications:</b> IF, IHC, WB	IP : HepG2 cells,
<b>Species Specificity:</b> human, mouse, rat	IHC : human kidney tissue,
<b>Cited Species:</b> human	

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

## 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  $\gamma$ -linked polyglutamates from the intracellular foylpolyglutamates to yield foylmonoglutamate 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
Yao Chen	38259297	Front Pharmacol	WB
Cheng Zhu	37798609	Reprod Sci	IHC, IF

## Storage

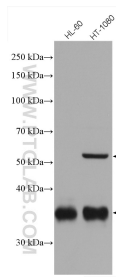
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1%BSA

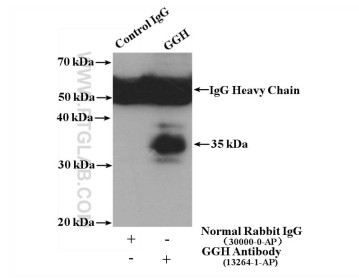
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

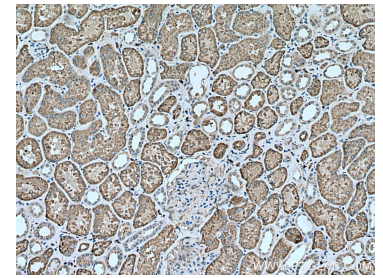
## Selected Validation Data



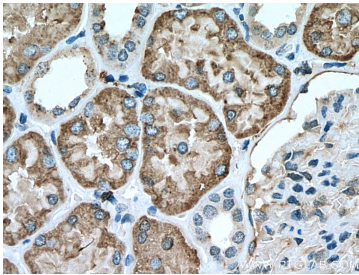
Various lysates were subjected to SDS PAGE followed by western blot with 13264-1-AP (GGH antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).