

For Research Use Only

# UGCG Polyclonal antibody

Catalog Number: 12869-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

12869-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3530

### GenBank Accession Number:

BC038711

### GeneID (NCBI):

7357

### UNIPROT ID:

Q16739

### Full Name:

UDP-glucose ceramide  
glucosyltransferase

### Calculated MW:

394 aa, 45 kDa

### Observed MW:

50-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

IF 1:50-1:500

## Applications

### Tested Applications:

IF-Fro, IF-P, IHC, IP, WB, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

### Positive Controls:

WB: A375 cells, C6 cells, mouse brain tissue, U-251  
cells

IP: A375 cells,

IHC: human lung cancer tissue, human breast cancer  
tissue, human lymphoma tissue

IF: mouse kidney tissue, mouse brain tissue

**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

UGCG, also named as GCS and GLCT-1, belongs to the glycosyltransferase 2 family. It catalyzes the first glycosylation step in glycosphingolipid biosynthesis, the transfer of glucose to ceramide. UGCG may also serve as a "flippase". It is up-regulated at the transcriptional level during keratinocyte differentiation. UGCG is a membrane protein. The calculated MW is 45 kDa. In SDS-PAGE, it is about 50-55 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Han	31551763	Front Pharmacol	WB
Shipeng Ning	33080569	Aging (Albany NY)	WB, IHC
Alexandre Henriques	26483191	Hum Mol Genet	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

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

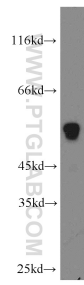
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

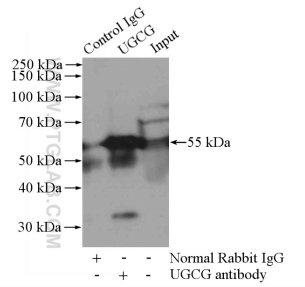
W: [ptgcn.com](http://ptgcn.com)

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

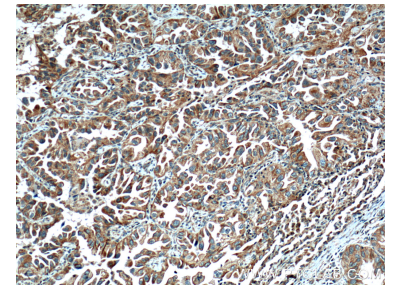
## Selected Validation Data



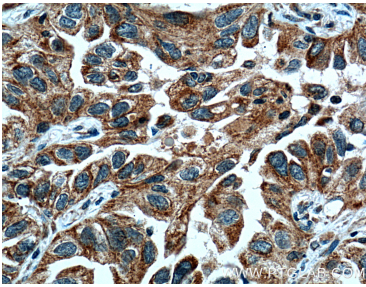
A375 cells were subjected to SDS PAGE followed by western blot with 12869-1-AP (UGCG antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



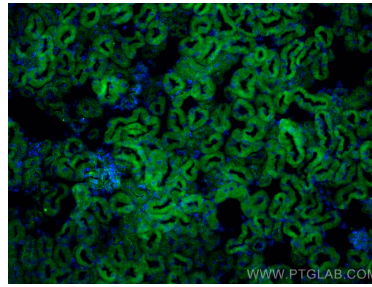
IP result of anti-UGCG (IP:12869-1-AP, 4ug; Detection:12869-1-AP 1:500) with A375 cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12869-1-AP (UGCG 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 lung cancer tissue slide using 12869-1-AP (UGCG Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of frozen mouse kidney tissue fixed with 4% PFA for 24 hours, embedded in OCT, permeabilized with 0.5% Triton X-100 PBS and subjected to antigen retrieval in sodium citrate buffer (pH 6.0) using UGCG antibody (12869-1-AP) at dilution of 1:200 and Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).