

For Research Use Only

UGCG Polyclonal antibody

Catalog Number: 12869-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

12869-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop;

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-P: 1:50-1:500

IF-Fro: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, 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: 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-P: mouse kidney tissue, mouse brain tissue

IF-Fro: mouse kidney tissue,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

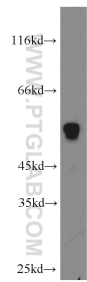
For technical support and original validation data for this product please contact:

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

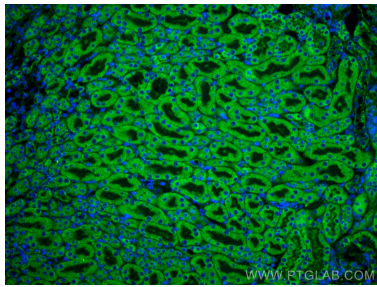
E: proteintech@ptglab.com
W: ptglab.com

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

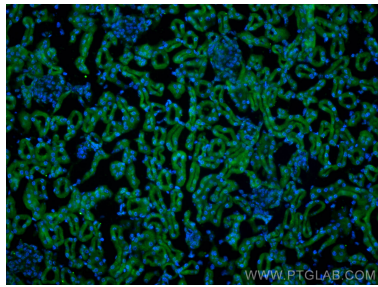
Selected Validation Data



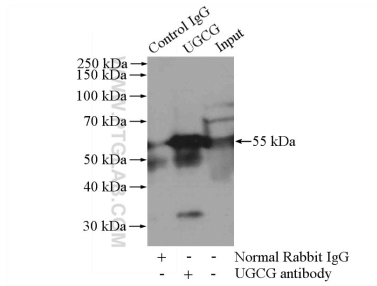
A375 cells were subjected to SDS PAGE followed by western blot with 12869-1-AP (UGCG antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



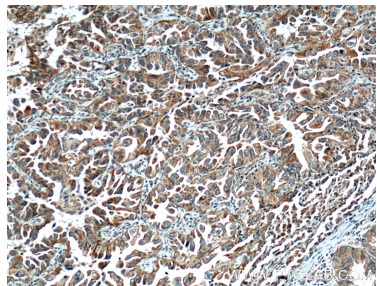
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using UGCG antibody (12869-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



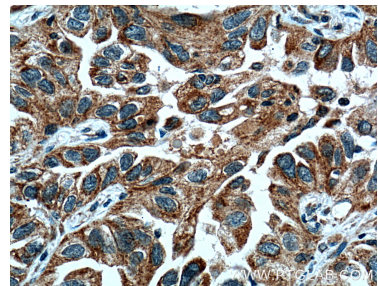
Immunofluorescent analysis of frozen mouse kidney tissue fixed with 4% PFA for 24 hours, embedded in OCT, permeabilized with 0.5% Triton X-100 PBS and subjected to antigen retrieval in sodium citrate buffer (pH 6.0) using UGCG antibody (12869-1-AP) at dilution of 1:200 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



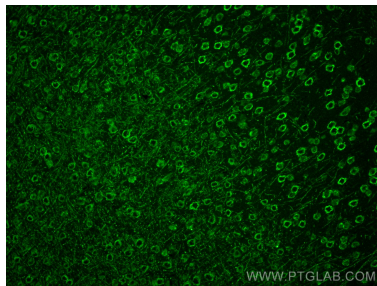
IP result of anti-UGCG (IP:12869-1-AP, 4ug; Detection:12869-1-AP 1:500) with A375 cells lysate 3200ug.



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 (4% PFA) fixed paraffin-embedded mouse brain tissue using UGCG antibody (12869-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).