

For Research Use Only

# UGCGL1 Polyclonal antibody

Catalog Number: 14170-1-AP **8 Publications**



## Basic Information

**Catalog Number:**

14170-1-AP

**Size:**

150ul, Concentration: 400 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5369

**GenBank Accession Number:**

BC041098

**GeneID (NCBI):**

56886

**UNIPROT ID:**

Q9NYU2

**Full Name:**

UDP-glucose ceramide glucosyltransferase-like 1

**Calculated MW:**

1531 aa, 175 kDa

**Observed MW:**

170 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IF, IP

**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:** HeLa cells, HepG2 cells, mouse brain tissue, rat brain tissue

**IP:** mouse brain tissue,

**IHC:** human pancreas cancer tissue, human colon cancer tissue

## Background Information

UDP-glucose:glycoprotein glucosyltransferase 1 (UGCGL1) is a central quality control gatekeeper in the mammalian endoplasmic reticulum (ER) and serves as a folding sensor in the calnexin/calreticulin glycoprotein quality control cycle (PMID: 28425917). UGCGL1 acts as a checkpoint in the quality control of the MHC class I antigen presentation pathway (PMID: 21383159). Western blot analysis detected UGCGL1 at an apparent molecular mass of 170 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jaeyong Cho	32423812	Biochem Biophys Res Commun	WB
Yoji Tsugawa	31101333	Biochem Biophys Res Commun	
Madison T. Wright	33208410	Mol Cell Proteomics	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

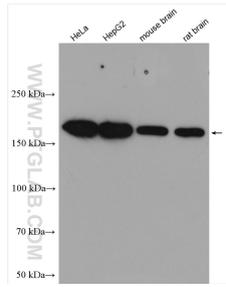
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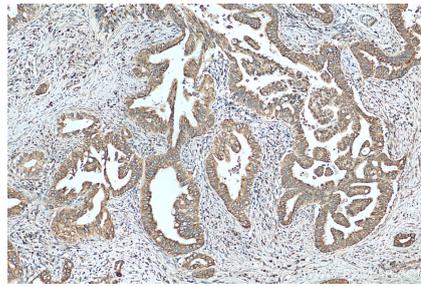
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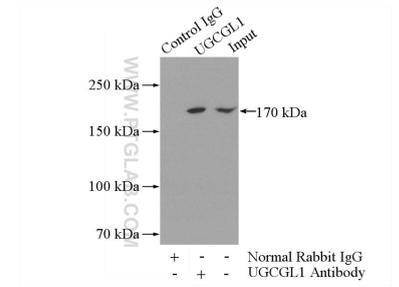
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 14170-1-AP (UGCG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 14170-1-AP (UGCG1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-UGCG1 (IP:14170-1-AP, 5ug; Detection:14170-1-AP 1:500) with mouse brain tissue lysate 4000ug.