

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

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

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

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

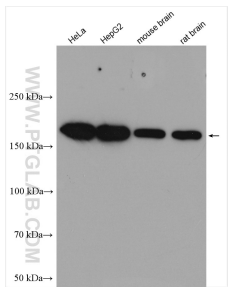
For technical support and original validation data for this product please contact:

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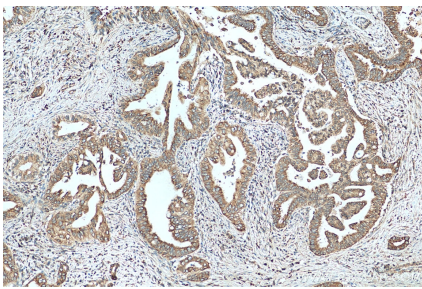
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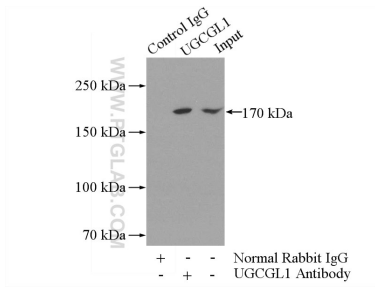
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 14170-1-AP (UGCGL1 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 (UGCGL1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-UGCGL1 (IP:14170-1-AP, 5ug; Detection:14170-1-AP 1:500) with mouse brain tissue lysate 4000ug.