

For Research Use Only

# UGCGL1 Polyclonal antibody

Catalog Number: 14170-1-AP

8 Publications



## Basic Information

<b>Catalog Number:</b> 14170-1-AP	<b>GenBank Accession Number:</b> BC041098	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 56886	<b>Recommended Dilutions:</b> 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
<b>Source:</b> Rabbit	<b>Full Name:</b> UDP-glucose ceramide glucosyltransferase-like 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1531 aa, 175 kDa	
<b>Immunogen Catalog Number:</b> AG5369	<b>Observed MW:</b> 170 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IP, WB	<b>WB :</b> HeLa cells,
<b>Species Specificity:</b> human, mouse, rat	<b>IP :</b> mouse brain tissue,
<b>Cited Species:</b> human, rat, mouse	<b>IHC :</b> human pancreas cancer tissue, human colon cancer tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

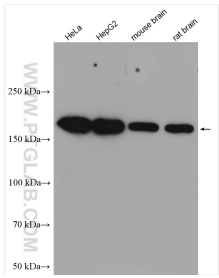
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

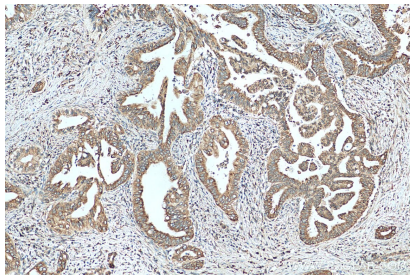
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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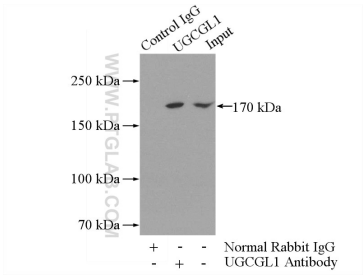
Selected Validation Data



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.