

For Research Use Only

# UAP1 Monoclonal antibody

Catalog Number: 67545-1-Ig

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

67545-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG9513

**GenBank Accession Number:**

BC009377

**GeneID (NCBI):**

6675

**UNIPROT ID:**

Q16222

**Full Name:**

UDP-N-acetylglucosamine  
pyrophosphorylase 1

**Calculated MW:**

505 aa, 57 kDa

**Observed MW:**

57-59 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2C7B2

**Recommended Dilutions:**

WB 1:5000-1:50000

IHC 1:500-1:2000

IF 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

WB, IHC, CoIP

**Species Specificity:**

Human

**Cited Species:**

human

**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, A549 cells, NCI-H1299 cells, LNCaP cells, HepG2 cells, THP-1 cells, HEK-293 cells, DU 145 cells, Jurkat cells, K-562 cells

**IHC:** human pancreas cancer tissue,

**IF:** PC-3 cells,

## Background Information

UAP1 can convert UTP and GlcNAc-1-P into UDP-GlcNAc, it can also convert UTP and GalNAc-1-P into UDP-GalNAc. There are three isoforms of UAP1, among which isoform AGX1 has 2 to 3 times higher activity towards GalNAc-1-P, while isoform AGX2 has 8 times more activity towards GlcNAc-1-P. It has been reported that UAP1 is specific and highly expressed in prostate cancer. UAP1 can protect cells against inhibitors of N-linked glycosylation. UAP1 may play an important role in maintaining INS responsiveness. 67545-1-Ig detects 57 and 59 kDa isoforms in SDS-PAGE. (PMID:25241896)

## Notable Publications

Author	Pubmed ID	Journal	Application
Zexin Su	36275679	Front Immunol	IHC, WB
Shuai Yang	36603579	Mol Cell	WB
Yuan-Li Ai	37460805	Cell Res	WB, CoIP

## 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:

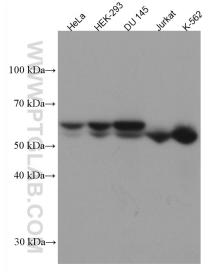
T: 4006900926

E: Proteintech-CN@ptglab.com

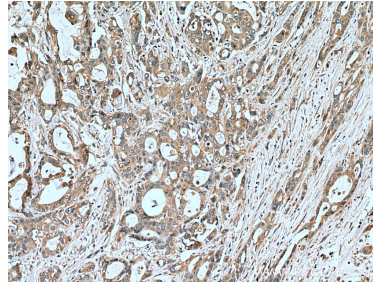
W: ptgcn.com

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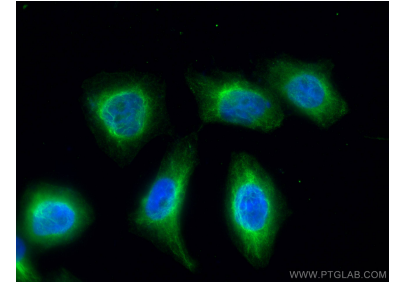
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67545-1-Ig (UAP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 67545-1-Ig (UAP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using UAP1 antibody (67545-1-Ig, Clone: 2C7B2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).