

For Research Use Only

UAP1 Monoclonal antibody

Catalog Number: 67545-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number: 67545-1-Ig	GenBank Accession Number: BC009377	Purification Method: Protein A purification
Size: 150ul, Concentration: 2400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6675	CloneNo.: 2C7B2
Source: Mouse	Full Name: UDP-N-acetylglucosamine pyrophosphorylase 1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800
Isotype: IgG1	Calculated MW: 505 aa, 57 kDa	
Immunogen Catalog Number: AG9513	Observed MW: 57-59 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

CoIP, IHC, WB

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

*** 20ul sizes contain 0.1% BSA

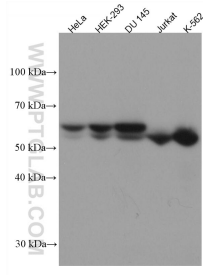
For technical support and original validation data for this product please contact:

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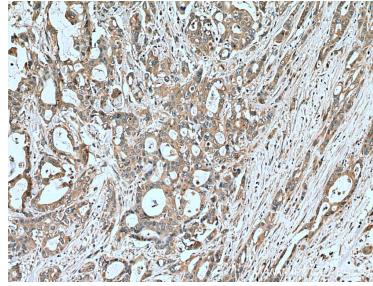
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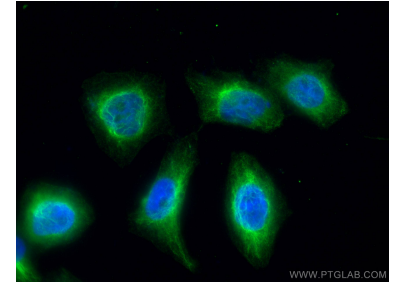
Selected Validation Data



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).