

For Research Use Only

# AP2A1 Polyclonal antibody

Catalog Number: 29887-1-AP

1 Publications



## Basic Information

Catalog Number:

29887-1-AP

Concentration:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31809

GenBank Accession Number:

NM\_014203

GeneID (NCBI):

160

UNIPROT ID:

O95782

Full Name:

adaptor-related protein complex 2,  
alpha 1 subunit

Calculated MW:

108KD

Observed MW:

100-108 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:250-1:1000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

Human, mouse

Positive Controls:

WB : HEK-293 cells, SH-SY5Y cells, mouse heart tissue

IHC : human ovary tumor tissue,

IF/ICC : SH-SY5Y cells, HeLa cells

**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

AP2A1 encodes adaptor protein complex 2 (AP-2) subunit alpha-1, which is a 100 kDa coated vesicle protein. Adaptor protein (AP) complexes are cytosolic heterotetramers that mediate the sorting of membrane proteins in the secretory and endocytic pathways. AP complexes are involved in the formation of clathrin-coated vesicles (CCVs) by recruiting the scaffold protein, clathrin. AP complexes also play a pivotal role in the cargo selection by recognizing the sorting signals within the cytoplasmic tail of integral membrane proteins. AP-2 is involved in clathrin-dependent endocytosis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Stephen A Chetwynd	39476960	J Biol Chem	WB

## Storage

Storage:

Store at -20°C.

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:

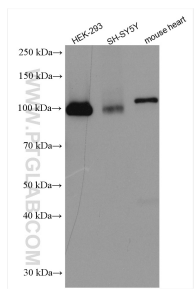
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

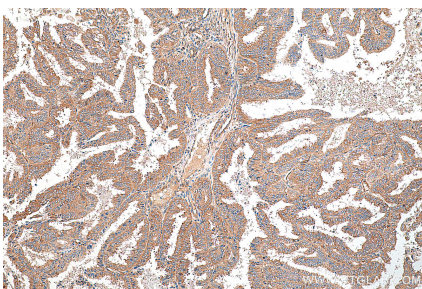
W: [ptgcn.com](http://ptgcn.com)

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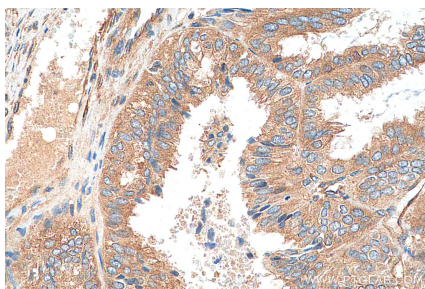
Selected Validation Data



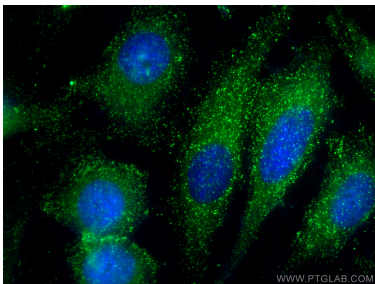
Various lysates were subjected to SDS PAGE followed by western blot with 29887-1-AP (AP2A1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



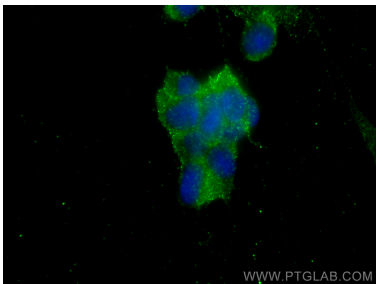
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 29887-1-AP (AP2A1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 29887-1-AP (AP2A1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using AP2A1 antibody (29887-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using AP2A1 antibody (29887-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).