

For Research Use Only

# ADAT2 Polyclonal antibody

Catalog Number: 13621-1-AP

1 Publications



## Basic Information

### Catalog Number:

13621-1-AP

### Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4529

### GenBank Accession Number:

BC037955

### GeneID (NCBI):

134637

### UNIPROT ID:

Q7Z6V5

### Full Name:

adenosine deaminase, tRNA-specific 2, TAD2 homolog (S. cerevisiae)

### Calculated MW:

191 aa, 21 kDa

### Observed MW:

25 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

**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: A431 cells, mouse brain tissue, mouse pancreas tissue

IP: mouse brain tissue,

IHC: human hepatocirrhosis tissue, human colon cancer tissue

IF/ICC: A431 cells,

## Background Information

ADAT2(tRNA-specific adenosine deaminase 2) is also named as DEADC1 and Belongs to the cytidine and deoxycytidylate deaminase family. It is a 24-kDa molecular mass protein that harbors all the conserved motifs required for deamination. ADAT2 and ADAT3 can function as a heterodimer which catalyses inosine formation at the wobble position (position 34) in eukaryotic tRNAs(PMID:12457566). It has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Elizabeth Ramos-Morales	34057470	Nucleic Acids Res	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

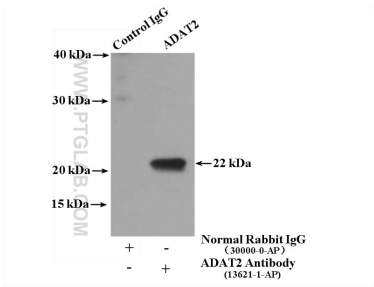
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

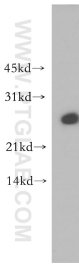
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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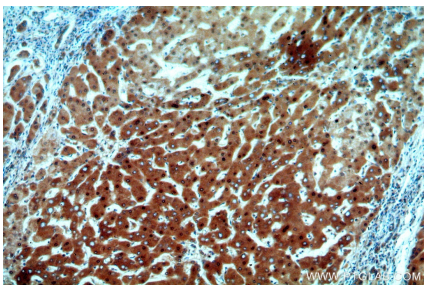
Selected Validation Data



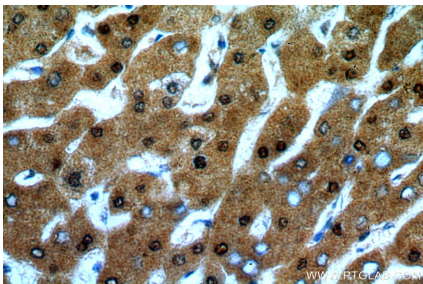
IP result of anti-ADAT2 (IP:13621-1-AP, 4ug; Detection:13621-1-AP 1:300) with mouse brain tissue lysate 3000 ug.



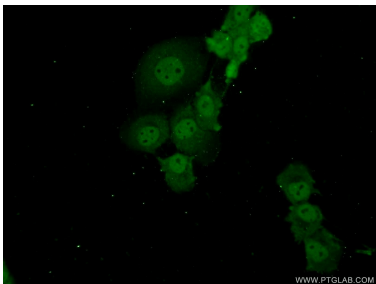
A431 cells were subjected to SDS PAGE followed by western blot with 13621-1-AP (ADAT2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



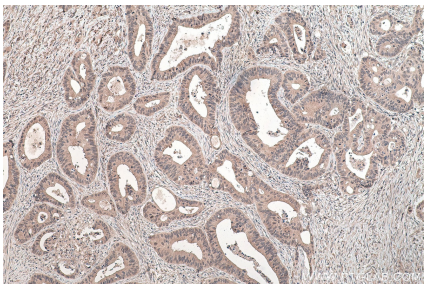
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis using 13621-1-AP (ADAT2 antibody) at dilution of 1:50 (under 10x lens).



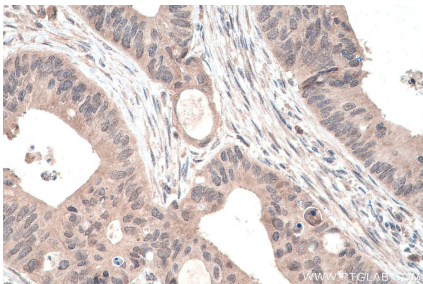
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis using 13621-1-AP (ADAT2 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of A431 cells using 13621-1-AP (ADAT2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13621-1-AP (ADAT2 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 colon cancer tissue slide using 13621-1-AP (ADAT2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).