

For Research Use Only

# GAA Polyclonal antibody

Catalog Number: 14367-1-AP

6 Publications



## Basic Information

### Catalog Number:

14367-1-AP

### Size:

150ul, Concentration: 180 µg/ml by Nanodrop and 160 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5690

### GenBank Accession Number:

BC040431

### GeneID (NCBI):

2548

### Full Name:

glucosidase, alpha; acid

### Calculated MW:

105 kDa

### Observed MW:

70-76 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, rat, mouse, zebrafish

**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 : DU 145 cells, mouse liver tissue

IP : mouse liver tissue,

IHC : human pancreas cancer tissue, mouse skeletal muscle tissue, mouse liver tissue

## Background Information

GAA(Alpha-1,4-glucosidase) is a lysosomal enzyme involved in the degradation of glycogen within cellular vacuoles. After translation, GAA undergoes proteolytic processing to form two lengths of lysosomal a-glucosidase, and both N-terminal and C-terminal processing occur. The full sequence can be further processed into a mature form. The 105 kDa GAA can be cleaved into 70 kDa or 76 kDa form.

## Notable Publications

Author	Pubmed ID	Journal	Application
Atsushi Kato	35838176	Org Biomol Chem	IF
Atsushi Kato	35072486	J Med Chem	IF
Jing Wu	28045567	DNA Cell Biol	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

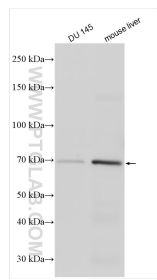
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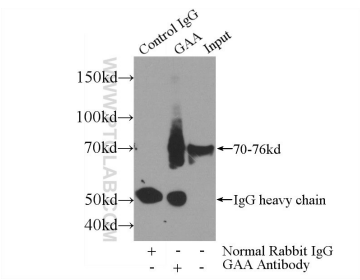
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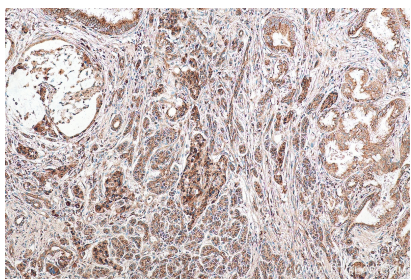
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14367-1-AP (GAA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-GAA (IP:14367-1-AP, 4ug; Detection:14367-1-AP 1:600) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 14367-1-AP (GAA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).