# GAA Polyclonal antibody

Catalog Number:29993-1-AP

**proteintech®**
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

**Catalog Number:**
29993-1-AP

**Size:**
800 μg/ml

**Source:**
Rabbit

**Isotype:**
IgG

**Immunogen Catalog Number:**
AG28970

**GenBank Accession Number:**
BC040431

**GeneID (NCBI):**
2548

**UNIPROT ID:**
P10253

**Full Name:**
glucosidase, alpha; acid

**Calculated MW:**
105 kDa

**Observed MW:**
110 kDa

**Purification Method:**
Antigen affinity purification

**Recommended Dilutions:**
WB 1:500-1:2000
IHC 1:50-1:500

## Applications

**Tested Applications:**
IHC, WB, ELISA

**Species Specificity:**
Human, 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 : DU 145 cells, LNCaP cells, PC-13 cells
IHC : 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 α -glucosidase, and both N-terminal and C-terminal processing occur. Typically, GAA is synthesized as an immature glycoprotein precursor (110 kDa) in the endoplasmic reticulum and undergoes a seriesof proteolytic and N-glycan processing events to yield an intermediate (95 kDa) and two lysosomal (76 and 70 kDa) isoforms. This antibody can detect the 110 kDa precursor form.
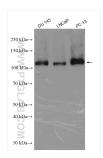
## Storage

**Storage:**
Store at -20℃. Stable for one year after shipment.
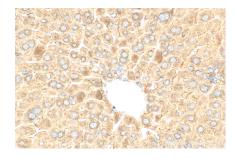**Storage Buffer:**
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29993-1-AP (GAA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 29993-1-AP (GAA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).