

Datasheet for ABIN4886596  
**anti-GAA antibody (Middle Region)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	GAA
Binding Specificity:	AA 494-527, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Lysosomal alpha-glucosidase(GAA) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human GAA (494-527aa TALAWWEDMVAEFHDQVPFDGMWIDMNEPSNFIR), different from the related mouse sequence by eight amino acids, and from the related rat sequence by six amino acids.
Sequence:	TALAWWEDMV AEFHDQVPFD GMWIDMNEPS NFIR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Lysosomal alpha-glucosidase(GAA) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: glucosidase alpha, acid Protein Name: Lysosomal alpha-glucosidase

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: GAA

Alternative Name: GAA ([GAA Products](#))

Background: Lysosomal alpha-glucosidase is an enzyme that in humans is encoded by the GAA gene. This gene encodes lysosomal alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. The encoded preproprotein is proteolytically processed to generate multiple intermediate forms and the mature form of the enzyme. Defects in this gene are the cause of glycogen storage disease II, also known as Pompe's disease, which is an autosomal recessive disorder with a broad clinical spectrum. Alternative splicing results in multiple transcript variants.

Synonyms: Acid alpha glucosidase | Acid maltase | Aglucosidase alfa | Alpha glucosidase | GAA | Glucosidase alpha acid | Glucosidase alpha | LYAG | P10253

Gene ID: 2548

UniProt: [P10253](#)

Pathways: [Cellular Glucan Metabolic Process](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

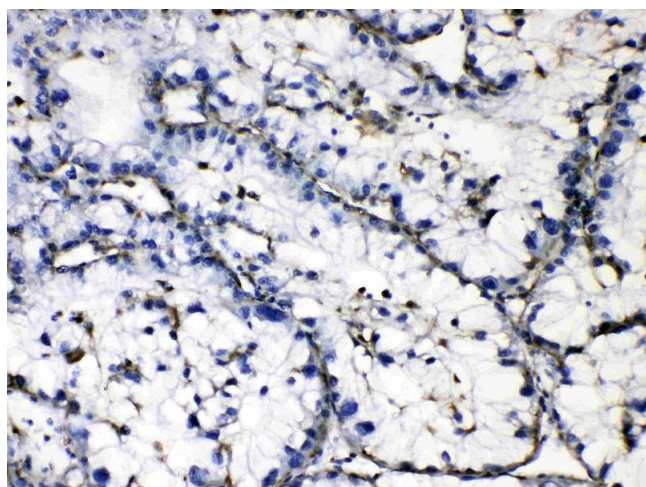
## Handling

Format: Lyophilized

## Handling

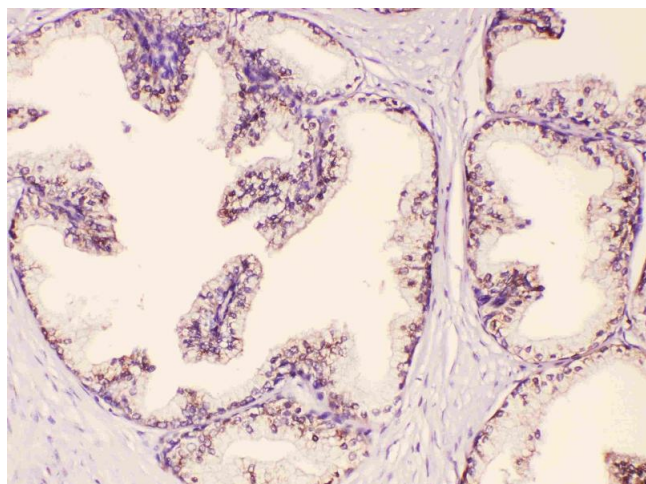
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.  It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



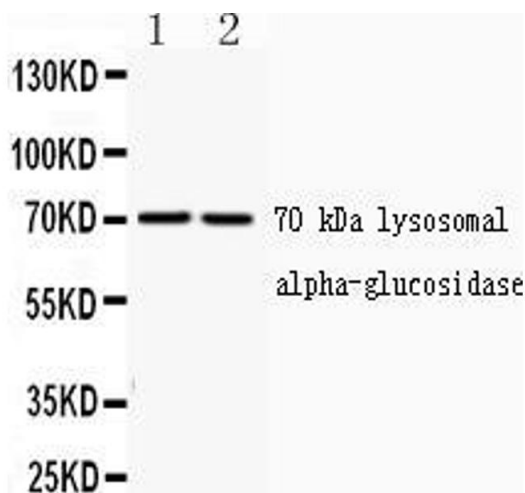
### Immunohistochemistry

**Image 1.** GAA was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- GAA Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



### Immunohistochemistry

**Image 2.** GAA was detected in paraffin-embedded sections of human prostatic cancer tissues using rabbit anti- GAA Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



**Western Blotting**

**Image 3.** Western blot analysis of GAA expression in rat liver extract ( Lane 1) and A549 whole cell lysates ( Lane 2). GAA at 70KD was detected using rabbit anti- GAA Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).