10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GAA Picoband Antibody
Catalog # ABO10192

Specification

Anti-GAA Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P10253
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Lysosomal alpha-glucosidase(GAA) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GAA Picoband Antibody - Additional Information

Gene ID 2548

Other Names
Lysosomal alpha-glucosidase, 3.2.1.20, Acid maltase, Aglucosidase alfa, 76 kDa lysosomal alpha-glucosidase, 70 kDa lysosomal alpha-glucosidase, GAA

Calculated MW
105324 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
Lysosome . Lysosome membrane .

Protein Name
Lysosomal alpha-glucosidase

Contents
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, 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.

Anti-GAA Picoband Antibody - Protein Information

Name GAA

Function
Essential for the degradation of glycogen in lysosomes (PubMed:14695532, PubMed:18429042, PubMed:1856189, PubMed:7717400). Has highest activity on alpha-1,4-linked glycosidic linkages, but can also hydrolyze alpha-1,6-linked glucans (PubMed:29061980).

Cellular Location
Lysosome. Lysosome membrane

Anti-GAA Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GAA Picoband Antibody - Images

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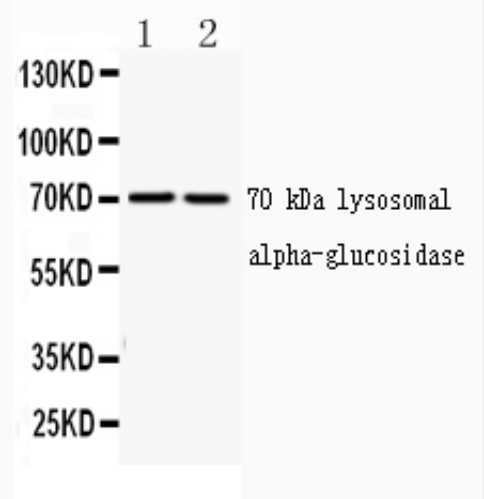
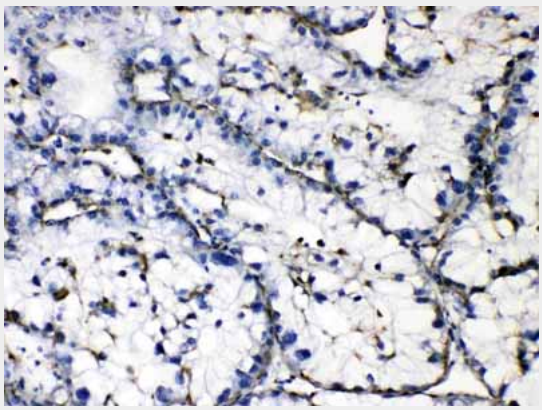
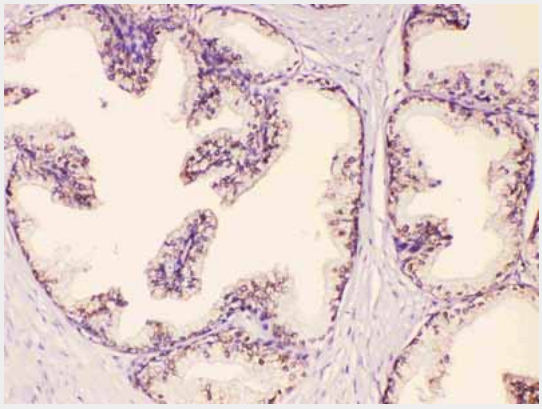


Western blot analysis of GAA expression in rat liver extract (lane 1) and A549 whole cell lysates (lane 2). GAA at 70KD was detected using rabbit anti- GAA Antigen Affinity purified polyclonal antibody (Catalog # ABO10192) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



GAA was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti-GAA Antigen Affinity purified polyclonal antibody (Catalog # ABO10192) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



GAA was detected in paraffin-embedded sections of human prostatic cancer tissues using rabbit anti- GAA Antigen Affinity purified polyclonal antibody (Catalog # ABO10192) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-GAA Picoband Antibody - Background

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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.