

Rabbit anti-Human, Rat GAA Polyclonal Antibody | anti-GAA antibody

Anti-GAA Antibody

CATALOG # AAA46732	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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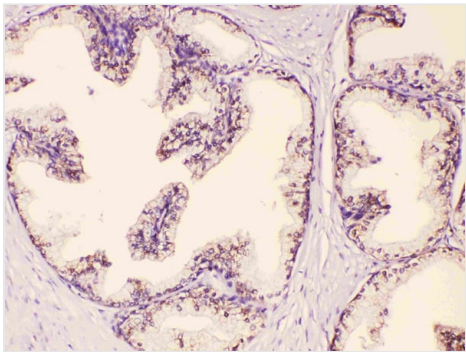
PRODUCT SYNONYMS

GAA; Polyclonal Antibody; Anti-GAA Antibody; Acid alpha glucosidase; Acid maltase; Aglucosidase alfa; Alpha glucosidase; Glucosidase alpha acid; Glucosidase alpha; LYAG; P10253; Lysosomal alpha-glucosidase; anti-GAA antibody

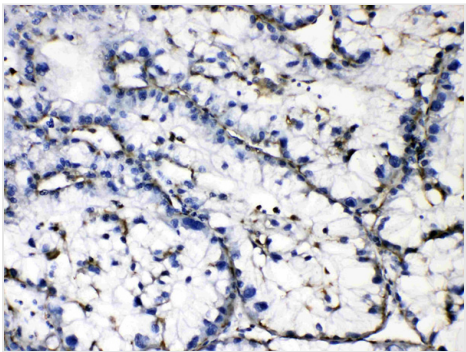
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	952
Applicable Applications for anti-GAA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
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.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

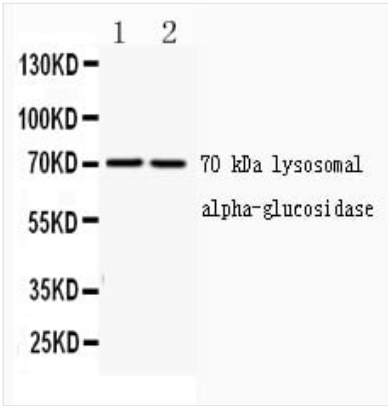
IMAGES



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



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



WB (Western Blot)
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 at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-GAA antibody	Rabbit IgG polyclonal antibody for Lysosomal alpha-glucosidase(GAA) detection. 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.
References	1. "Entrez Gene: GAA glucosidase, alpha; acid (Pompe disease, glycogen storage disease type II)". 2. Donald J. Voet; Judith G. Voet; Charlotte W. Pratt (2008). "Additional Pathways in Carbohydrate Metabolism". Principles of Biochemistry, Third edition. Wiley. p. 538. 3. Reuser AJ, Kroos MA, Hermans MM, et al. (1995). "Glycogenosis type II (acid maltase deficiency)". Muscle Nerve. 3: S61-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119393891
NCBI GeneID	2548
NCBI Accession #	NP_000143.2
NCBI GenBank Nucleotide #	NM_000152.4

UniProt Accession #	P10253 ; Q09GN4 ; Q14351 ; Q16302 ; Q8IWE7
Molecular Weight	105,324 Da
NCBI Official Full Name	lysosomal alpha-glucosidase preproprotein
NCBI Official Synonym Full Names	glucosidase alpha, acid
NCBI Official Symbol	GAA
NCBI Official Synonym Symbols	LYAG
NCBI Protein Information	lysosomal alpha-glucosidase
UniProt Protein Name	Lysosomal alpha-glucosidase
UniProt Gene Name	GAA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gaa-antibody-immunohistochemistry-western-blot-elisa/46732>