

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

GAA Antibody (N-term)

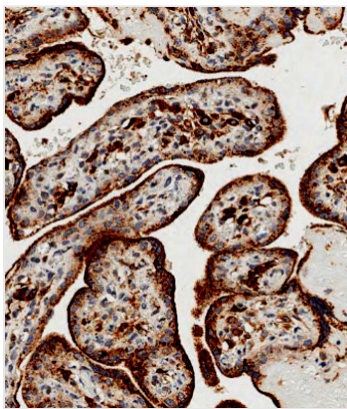
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28695	Rabbit	Human	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

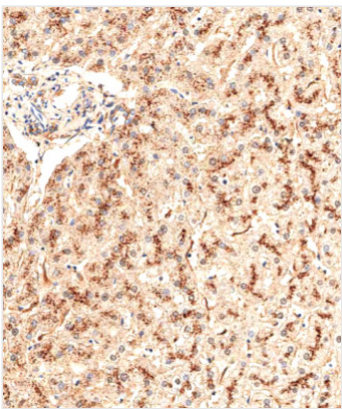
GAA; Polyclonal Antibody; GAA Antibody (N-term); Lysosomal alpha-glucosidase; Acid maltase; Aglucosidase alfa; 76 kDa lysosomal alpha-glucosidase; 70 kDa lysosomal alpha-glucosidase; anti-GAA antibody

PRODUCT SPECIFICATIONS

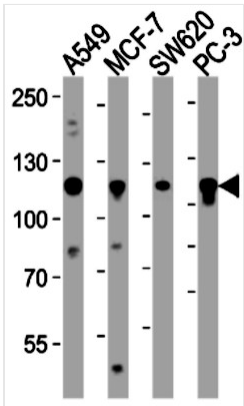
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This GAA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 174-203 amino acids from the N-terminal region of human GAA.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	174-203
Sequence Length	952
Applicable Applications for anti-GAA antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	WB~~1:1000 IHC-p-Leica~~1:500
Cellular Location	Lysosome. Lysosome membrane
Function	Essential for the degradation of glycogen to glucose in lysosomes.
Gene ID	2548
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles .



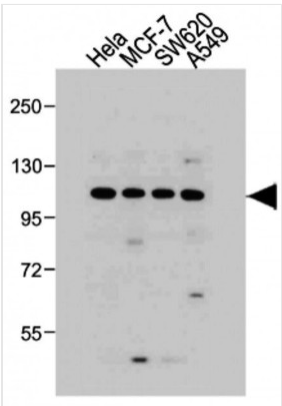
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human placenta tissue using AAA28695 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



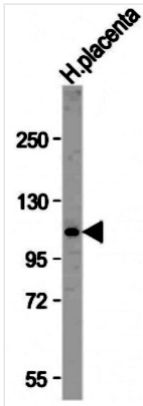
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human liver tissue using AAA28695 performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



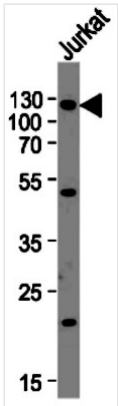
WB (Western Blot)
Western blot analysis of lysates from A549, MCF-7, SW620, PC-3 cell line (from left to right), using GAA Antibody (N-term)(Cat. #AAA28695). AAA28695 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



WB (Western Blot)
All lanes : Anti-GAA Antibody (N-term) at 1:1000 dilutionLane 1: HeLa whole cell lysateLane 2: MCF-7 whole cell lysateLane 3: SW620 whole cell lysateLane 4: A549 whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 105 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Anti-GAA Antibody (N-term) at 1:1000 dilution + Human placenta tissue lysate Lysates/proteins at 20 ?g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 105 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Western blot analysis of lysate from Jurkat cell line, using GAA Antibody (N-term) (Cat. #AAA28695). AP12544a was diluted at 1:2000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL INFORMATION

Related Product Information for anti-GAA antibody	This gene encodes acid alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. Different forms of acid alpha-glucosidase are obtained by proteolytic processing. 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. Three transcript variants encoding the same protein have been found for this gene.
Product Categories/Family for anti-GAA antibody	Metabolism; Signal Transduction
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Labrousse, P., et al. Mol. Genet. Metab. 99(4):379-383(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Aoyama, Y., et al. J. Hum. Genet. 54(11):681-686(2009) Maimaiti, M., et al. J. Hum. Genet. 54(8):493-496(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	119393891
NCBI GeneID	2548
NCBI Accession #	NP_000143.2; NP_001073271.1; NP_001073272.1
NCBI GenBank Nucleotide #	NM_000152.3
UniProt Accession #	P10253; Q09GN4; Q14351; Q16302; Q8IWE7
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
UniProt Entry Name	LYAG_HUMAN

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-western-blot-immunohistochemistry-elisa/28695>