

Mouse anti-Human GAA Monoclonal Antibody | anti-GAA antibody

Anti-GAA Antibody (Monoclonal, 2G7)

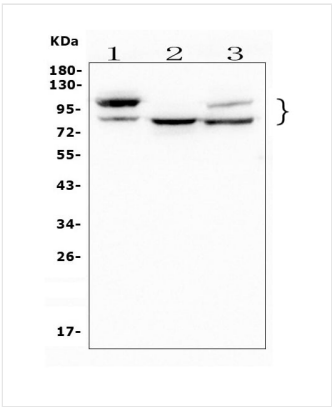
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19211	Mouse	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

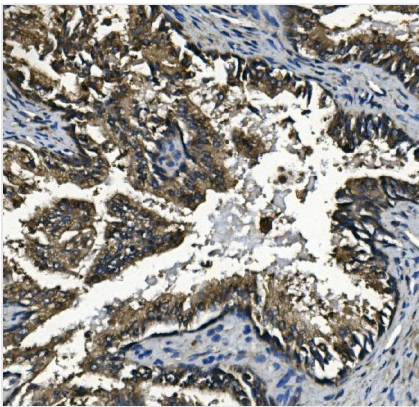
GAA; Monoclonal Antibody; Anti-GAA Antibody (Monoclonal; 2G7); Acid alpha glucosidase; Acid maltase; Aglucosidase alfa; Alpha glucosidase; Glucosidase alpha acid; Glucosidase alpha; LYAG; P10253; anti-GAA antibody

PRODUCT SPECIFICATIONS

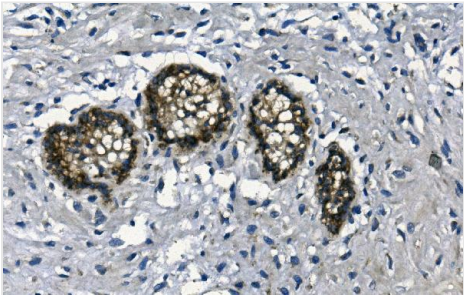
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	2G7
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Sequence Length	952
Applicable Applications for anti-GAA antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: Concentration: 0.1-0.5ug/ml; Tested Species: Human IHC-P (Embedded Section): Concentration: 0.5-1ug/ml; Tested Species: Human ICC: Concentration: 2ug/ml; Tested Species: Human IF: Concentration: 2ug/ml; Tested Species: Human FC: Concentration: 1-3ug/1x10 ⁶ cells; Tested Species: Human Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
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.
Relevant Detection Systems	QC labs recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG for Western blot, and HRP Conjugated anti- Mouse IgG Super Vision Assay Kit for IHC(P) and ICC.
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 store at -20 degree C for 6 months. Avoid repeated freezing and thawing.



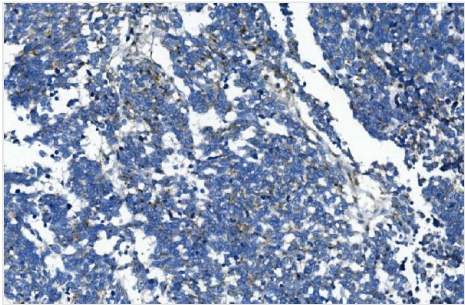
WB (Western Blot)



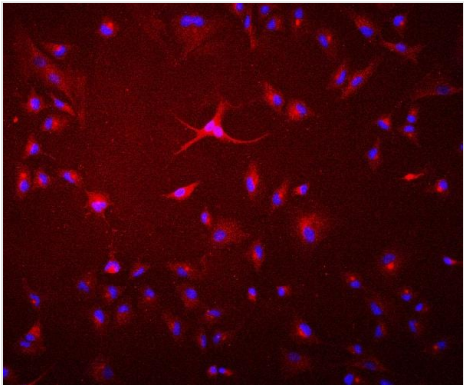
IHC (Immunohistochemistry)



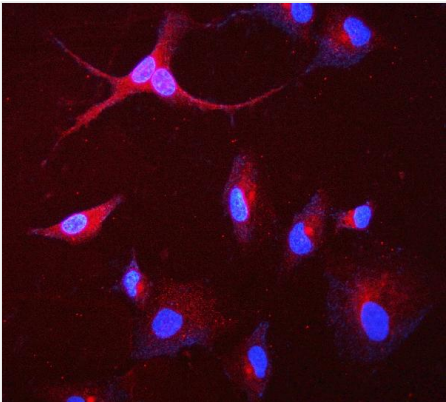
IHC (Immunohistochemistry)



IHC (Immunohistochemistry)



IF (Immunofluorescence)



IF (Immunofluorescence)

ADDITIONAL INFORMATION

Related Product Information for anti-GAA antibody	Description: Mouse IgG monoclonal antibody for GAA detection. Tested with WB, IHC-P, ICC/IF, FCM in Human. 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 #	NP_000143.2
UniProt Accession #	P10253
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/monoclonal/gaa-antibody-clone-2g7-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19211>