

Rabbit anti-Human Galactosidase alpha/Gla Polyclonal Antibody | anti-GLA antibody

Anti-Galactosidase alpha/Gla Antibody

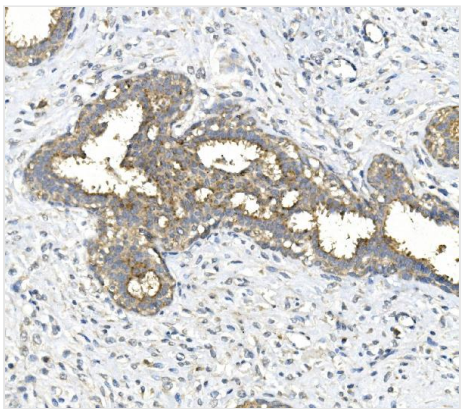
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125591	Rabbit	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Galactosidase alpha/Gla; Polyclonal Antibody; Anti-Galactosidase alpha/Gla Antibody; GLA; Alpha-galactosidase A; EC 3. 2. 1. 22; Alpha-D-galactosidase A; Alpha-D-galactoside galactohydrolase; Melibiase; Agalsidase; galactosidase alpha; anti-GLA antibody

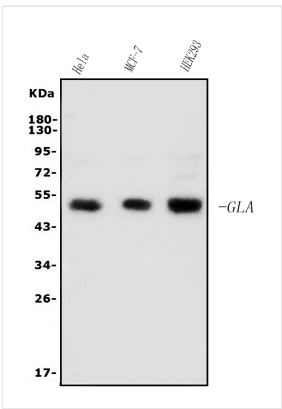
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Galactosidase alpha/Gla detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-GLA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human Galactosidase alpha/Gla (KRKLGFEWTSRLRSHIN).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
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.



Application Data

Figure2. IHC analysis of Galactosidase alpha/Gla using anti-Galactosidase alpha/Gla antibody (AAA125591).Galactosidase alpha/Gla was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Galactosidase alpha/Gla Antibody (AAA125591) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Galactosidase alpha/Gla using anti-Galactosidase alpha/Gla antibody (AAA125591).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HELA whole cell lysatesLane 2: human MCF-7 whole cell lysatesLane 3: human HEK293 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Galactosidase alpha/Gla antigen affinity purified polyclonal antibody (Catalog # AAA125591) at 0.5 μg/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Galactosidase alpha/Gla at approximately 49KD. The expected band size for Galactosidase alpha/Gla is at 49KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GLA antibody	Alpha-galactosidase is a glycoside hydrolase enzyme that encoded by the GLA gene. This gene is a homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. This enzyme predominantly hydrolyzes ceramide trihexoside, and it can catalyze the hydrolysis of melibiose into galactose and glucose. A variety of mutations in this gene affect the synthesis, processing, and stability of this enzyme, which causes Fabry disease, a rare lysosomal storage disorder that results from a failure to catabolize alpha-D-galactosyl glycolipid moieties.
References	1. "Entrez Gene: GLA galactosidase, alpha". 2. Calhoun DH, Bishop DF, Bernstein HS, Quinn M, Hantzopoulos P, Desnick RJ (1985). "Fabry disease: isolation of a cDNA clone encoding human alpha-galactosidase A". Proceedings of the National Academy of Sciences of the United States of America. 82 (21): 7364-8. 3. Keating GM (October 2012). "Agalsidase alfa: a review of its use in the management of Fabry disease". BioDrugs. 26 (5): 335-54.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504009
NCBI GeneID	2717
NCBI Accession #	NP_000160.1
NCBI GenBank Nucleotide #	NM_000169.2
UniProt Accession #	P06280; Q6LER7
Molecular Weight	48,767 Da
NCBI Official Full Name	alpha-galactosidase A
NCBI Official Synonym Full Names	galactosidase, alpha

NCBI Official Symbol	GLA
NCBI Official Synonym Symbols	GALA
NCBI Protein Information	alpha-galactosidase A; melibiase; alpha-gal A; agalsidase alfa; alpha-D-galactosidase A; alpha-D-galactoside galactohydrolase 1
UniProt Protein Name	Alpha-galactosidase A
UniProt Gene Name	GLA
UniProt Entry Name	AGAL_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/galactosidase-alpha-gla-antibody-immunohistochemistry-western-blot-elisa/125591>