ARG58730
anti-GAA antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GAA
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GAA
Species	Human
Immunogen	Synthetic peptide within aa. 350-450 of Human GAA (NP_000143.2).
Conjugation	Un-conjugated
Alternate Names	Lysosomal alpha-glucosidase; LYAG; Aglucosidase alfa; Acid maltase; EC 3.2.1.20

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse thymus
Observed Size	105 kDa

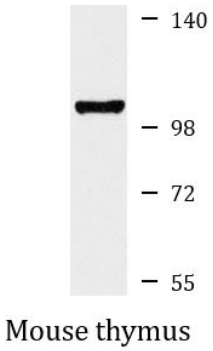
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	GAA
Gene Full Name	glucosidase, alpha; acid
Background	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. [provided by RefSeq, Jul 2008]
Function	Essential for the degradation of glygogen to glucose in lysosomes. [UniProt]
Calculated Mw	105 kDa
PTM	The different forms of acid glucosidase are obtained by proteolytic processing. Phosphorylation of mannose residues ensures efficient transport of the enzyme to the lysosomes via the mannose 6-phosphate receptor. [UniProt]
Cellular Localization	Lysosome, Lysosome membrane. [UniProt]

Images



ARG58730 anti-GAA antibody WB image

Western blot: 25 µg of Mouse thymus lysate stained with ARG58730 anti-GAA antibody at 1:1000 dilution.