

Datasheet for ABIN2781771
anti-GAA antibody (N-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	GAA
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Zebrafish (Danio rerio), Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GAA
Sequence:	FGVIVRRQLD GRVLLNTTVA PLFFADQFLQ LSTSLPSQYI TGLAEHLSPL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 79%, Rat: 100%, Zebrafish: 83%
Characteristics:	This is a rabbit polyclonal antibody against GAA. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GAA
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Target Details

Alternative Name:	GAA (GAA Products)
Background:	<p>GAA is 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. 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.</p> <p>Alias Symbols: LYAG</p> <p>Protein Interaction Partner: UBC, SUMO1, NEDD8, NUMBL, STAT2, HIVEP1, EP300, SYNCRIP, MTHFD1, ILF3, HNRNPK, CDH2, CALU, FBXO6, NCF1,</p> <p>Protein Size: 952</p>
Molecular Weight:	98 kDa
Gene ID:	2548
NCBI Accession:	NM_000152 , NP_000143
UniProt:	P10253
Pathways:	Cellular Glucan Metabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 952 AA
Restrictions:	For Research Use only

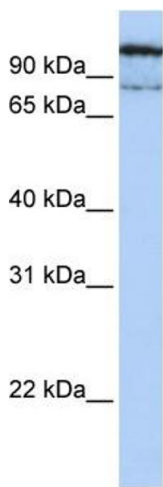
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

Handling

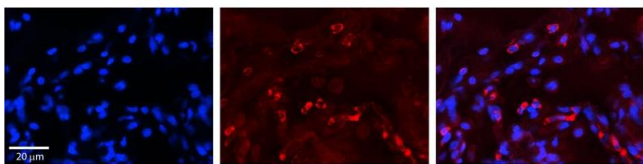
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-GAA Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: MCF7 cell lysate GAA is supported by BioGPS gene expression data to be expressed in MCF7



Immunohistochemistry

Image 2. Rabbit Anti-GAA Antibody Formalin Fixed Paraffin Embedded Tissue: Human Lung Tissue Observed Staining: Cytoplasmic in alveolar type I cells Primary Antibody Concentration: 1:100 Other Working Concentrations: 1/600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec