

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

AGL Antibody (C-term)

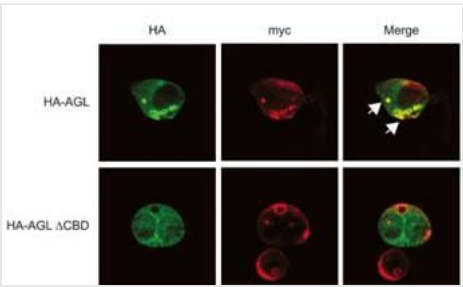
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283852	Rabbit	Human	Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

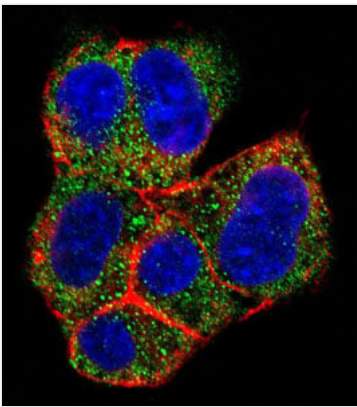
AGL; Polyclonal Antibody; AGL Antibody (C-term); Glycogen debranching enzyme; Glycogen debrancher; 4-alpha-glucanotransferase; Oligo-1; 4-1; 4-glucantransferase; Amylo-alpha-1; 6-glucosidase; Amylo-1; Dextrin 6-alpha-D-glucosidase; GDE; anti-AGL antibody

PRODUCT SPECIFICATIONS

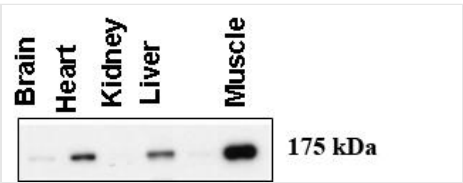
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This AGL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1479-1510 amino acids from the C-terminal region of human AGL.
Purity/Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	1479-1510
Sequence Length	1,516
Applicable Applications for anti-AGL antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	Multifunctional enzyme acting as 1,4-alpha-D-glucan:1,4- alpha-D-glucan4-alpha-D- glycosyltransferase and amylo-1,6-glucosidase in glycogen degradation.
Cellular Location	Cytoplasm. Note=Under glycogenolytic conditions localizes to the nucleus
Tissue Location	Liver, kidney and lymphoblastoid cells express predominantly isoform 1; whereas muscle and heart express not only isoform 1, but also muscle-specific isoform mRNAs (isoforms 2, 3 and 4). Isoforms 5 and 6 are present in both liver and muscle
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



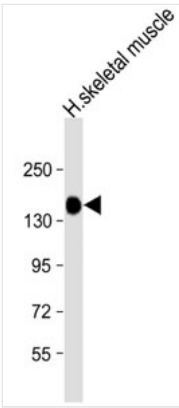
IF (Immunofluorescence)
Expression of myc-GS causes wild type but not the Δ CBD mutant of AGL to aggregate around the PAS-stain-positive inclusions. HepG2 cells were transfected with either HA-tagged wild-type AGL (HA-AGL) or HA-AGL Δ CBD. Cells were fixed in formalin and processed for IF using anti-HA (green) and anti-myc (red) antibodies. White arrows indicate colocalization of HA-AGL and myc-GS.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of AGL Antibody (C-term) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



WB (Western Blot)
Western blot using anti-AGL (C-term) antibody at 1:1000 dilution. A total of 20 ug of lysates was loaded for each tissue. Data courtesy of Dr. Alan Cheng, Department of Internal Medicine, Life Sciences Institute, University of Michigan Medical Center, Ann Arbor, Michigan.



WB (Western Blot)
Anti-AGL Antibody (C-term) at 1:8000 dilution + human skeletal muscle lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 175 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-AGL antibody	AGL is a glycogen debrancher enzyme which is involved in glycogen degradation. This enzyme has two independent catalytic activities which occur at different sites on the protein: a 4- α -glucotransferase activity and a amylo-1,6-glucosidase activity. Mutations in the AGL gene are associated with glycogen storage disease although a wide range of enzymatic and clinical variability occurs which may be due to tissue-specific alternative splicing.
Product Categories/Family for anti-AGL antibody	Cancer; Signal Transduction
References	Horinishi, A., et al., J. Hum. Genet. 47(2):55-59 (2002). Bao, Y., et al., Genomics 38(2):155-165 (1996). Yang, B.Z., et al., J. Biol. Chem. 267(13):9294-9299 (1992). Yang-Feng, T.L., et al., Genomics 13(4):931-934 (1992). Bao, Y., et al., Gene 197 (1-2), 389-398 (1997).

NCBI AND UNIPROT INFORMATION

NCBI GI #	116734847
NCBI GeneID	178
NCBI Accession #	NP_000019.2; NP_000633.2; NP_000634.2; NP_000635.2; NP_000636.2; NP_000637.2
NCBI GenBank Nucleotide #	NM_000028.2

UniProt Accession #	P35573; P78354; P78544; Q59H92; Q6AZ90; Q9UF08; A6NCX7; A6NEK2; D3DT51
NCBI Official Full Name	glycogen debranching enzyme isoform 1
NCBI Official Synonym Full Names	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase
NCBI Official Symbol	AGL
NCBI Official Synonym Symbols	GDE
NCBI Protein Information	glycogen debranching enzyme
UniProt Protein Name	Glycogen debranching enzyme
UniProt Gene Name	AGL
UniProt Synonym Gene Names	GDE; Amylo-1,6-glucosidase
UniProt Entry Name	GDE_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/agl-antibody-immunofluorescence-western-blot-elisa/283852>