

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

AGL Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290685	Rabbit	Human	ELISA, Immunofluorescence, Western Blot

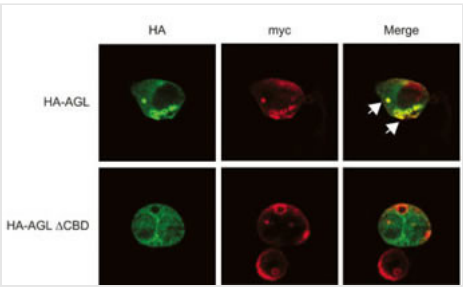
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

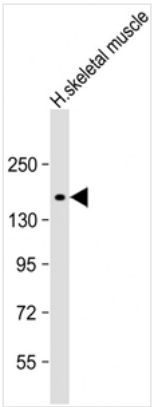
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This AGL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human AGL.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Length	1532
Applicable Applications for anti-AGL antibody	ELISA, IF (Immunofluorescence), WB (Western Blot)
Subtitle	Purified Rabbit Polyclonal Antibody (Pab)
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.

IMAGES



IF (Immunofluorescence)

Expression of myc-GS causes wild type but not the „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 „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.



WB (Western Blot)

Anti-AGL Antibody (M15) at 1:1000 dilution + human skeletal muscle lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 175 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-AGL antibody	Description: 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. Background: Multifunctional enzyme acting as 1,4-α-D-glucan:1,4- α-D-glucan 4-α-D-glycosyltransferase and amylo-1,6- glucosidase in glycogen degradation.
Product Categories/Family for anti-AGL antibody	Primary Antibodies; Cancer; Signal Transduction
References	Horinishi, A., et al., J. Hum. Genet. 47 (2):55-59 (2002). Shen, J., et al., Hum. Mutat. 9 (1):37-40 (1997). Bao, Y., et al., Genomics 38 (2):155-165 (1996). Shen, J., et al., J. Clin. Invest. 98 (2):352-357 (1996). Yang, B.Z., et al., J. Biol. Chem. 267 (13):9294-9299 (1992).

NCBI AND UNIPROT INFORMATION

NCBI GI #	116734847
NCBI GeneID	178
NCBI Accession #	NP_000019.2
NCBI GenBank Nucleotide #	NM_000028.2
UniProt Accession #	P35573; P78354; P78544; Q59H92; Q6AZ90; Q9UF08; A6NCX7; A6NEK2; D3DT51
Molecular Weight	174764 Da
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://www.aaabiotech.com/polyclonal/agl-antibody-immunofluorescence-western-blot-elisa/290685>