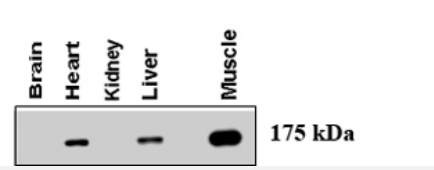
AGL polyclonal antibody

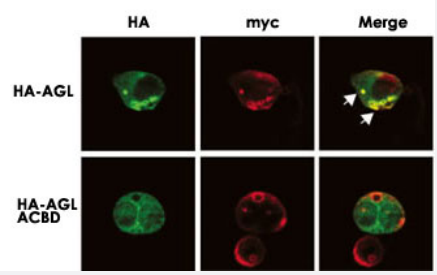
Catalog # PAB4298 Size 400 uL

Applications



Western Blot (Tissue lysate)

Western blot using AGL polyclonal antibody (Cat # PAB4298) at 1 : 500 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 .



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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AGL.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 1479-1510 at the C-termin us of human AGL.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	ELISA Immunofluorescence (1:10-50) Western Blot (1:8000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — AGL

Entrez GeneID	178
Protein Accession#	NP_000019;P35573
Gene Name	AGL
Gene Alias	GDE
Gene Description	amylo-1, 6-glucosidase, 4-alpha-glucanotransferase
Omim ID	232400 610860
Gene Ontology	Hyperlink

Gene Summary	This gene encodes the glycogen debrancher enzyme which is involved in glycogen degradation. T his enzyme has two independent catalytic activities which occur at different sites on the protein: a 4-alpha-glucotransferase activity and a amylo-1,6-glucosidase activity. Mutations in this gene are associated with glycogen storage disease although a wide range of enzymatic and clinical variabi lity occurs which may be due to tissue-specific alternative splicing. Alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq
Other Designations	OTTHUMP00000012500|OTTHUMP00000012501|OTTHUMP00000012502|OTTHUMP000000 12503|OTTHUMP00000012504|OTTHUMP00000012505|glycogen debranching enzyme

Publication Reference

- A role for AGL ubiquitination in the glycogen storage disorders of Lafora and Cori's disease.

  Cheng A, Zhang M, Gentry MS, Worby CA, Dixon JE, Saltiel AR.

  Genes & Development 2007 Oct; 21(19):2399.

Pathway

- Metabolic pathways
- Starch and sucrose metabolism

Disease

- Glycogen Storage Disease Type III
- Tobacco Use Disorder