

Product Name: KD-Validated AGL Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01433**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 174.8kDa

Antigen Information

Gene Name	AGL
Alternative Names	AGL; Amylo-Alpha-1, 6-Glucosidase, 4-Alpha-Glucanotransferase; GDE; Glycogen Debranching Enzyme; Amylo-1, 6-Glucosidase, 4-Alpha-Glucanotransferase; Glycogen Debrancher; Amylo-Alpha-1, 6-Glucosidase, 4-Alpha-Glucanotransferaseprovided; Glycogen Storage Disease Type III; Glycogen Debranching Protein
Gene ID	178.0
SwissProt ID	P35573
Immunogen	A synthesized peptide derived from human AGL

Background

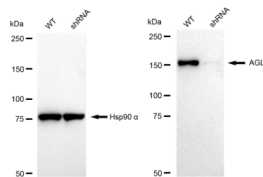
This gene encodes the glycogen debrancher enzyme which is involved in glycogen degradation. This enzyme has two

independent catalytic activities which occur at different sites on the protein: a 4-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 variability occurs which may be due to tissue-specific alternative splicing. Alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

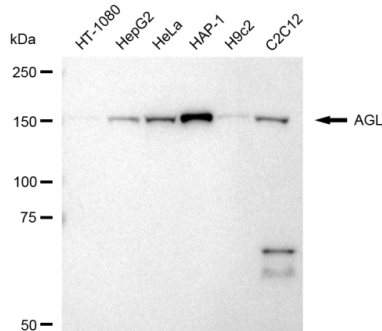
Research Area

Signal Transduction,Cancer,Metabolism

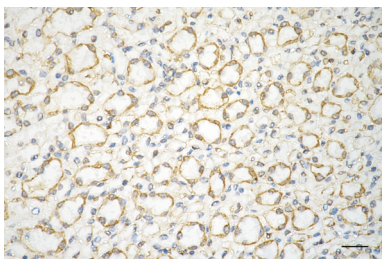
Image Data



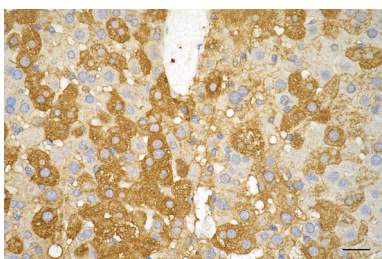
Western blotting analysis using AGL antibody (KVA01433). AGL expression in wild type (WT) and AGL shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with AGL antibody (KVA01433, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



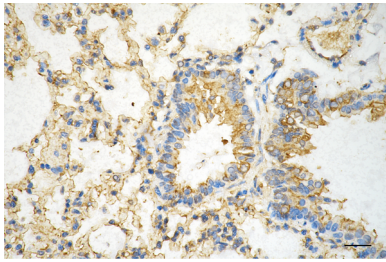
Western blotting analysis using AGL antibody (KVA01433). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with AGL antibody (KVA01433, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



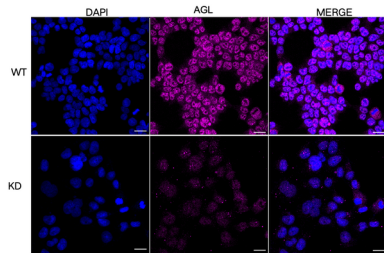
Immunohistochemistry was performed on paraffin-embedded mouse kidney using AGL antibody (KVA01433, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



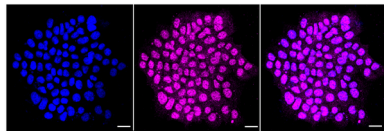
Immunohistochemistry was performed on paraffin-embedded mouse liver using AGL antibody (KVA01433, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



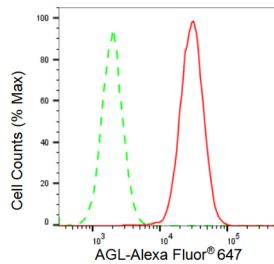
Immunohistochemistry was performed on paraffin-embedded mouse lung using AGL antibody (KVA01433, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



Immunocytochemical staining of HeLa cells using AGL antibody (KVA01433, 1:1,000), Top panel: wild-type (WT); Bottom panel: AGL shRNA knockdown (KD). Nuclei were stained blue with DAPI; AGL was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Immunocytochemical staining of HAP-1 cells with AGL antibody (KVA01433, 1:1,000). Nuclei were stained blue with DAPI; AGL was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 μm.



Flow cytometric analysis of AGL expression in HAP-1 cells using AGL antibody (KVA01433, 1:2,000). Green, isotype control; red, AGL.