

Recombinant Human AGL 293 Cell Lysate

Cat. No. AGL-8979HCL **Lot. No.** (See product label)

SPECIFICATION

| | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species | Human |
| Source | HEK293 |
| Description | Antigen standard for amylo-1, 6-glucosidase, 4-alpha-glucanotransferase (AGL), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection. |
| Components | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| Size | 0.1 mg |
| Storage Instruction | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment. |
| Applications | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the |

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

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| Gene Name | AGL amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Homo sapiens] |
| Official Symbol | AGL |
| Synonyms | AGL; amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase; amylo 1, 6 glucosidase, 4 alpha glucanotransferase; glycogen debranching enzyme; glycogen storage disease type III; glycogen debrancher; amylo-1, 6-glucosidase, 4-alpha-glucanotransferase; GDE; |
| Gene ID | 178 |
| mRNA Refseq | NM_000642 |
| Protein Refseq | NP_000633 |
| MIM | 610860 |
| UniProt ID | P35573 |
| Chromosome Location | 1p21 |
| Pathway | Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen breakdown (glycogenolysis), organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem; Starch and sucrose metabolism, organism-specific biosystem; |

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Function

4-alpha-glucanotransferase activity; amylo-alpha-1,6-glucosidase activity; cation binding; glycogen debranching enzyme activity; hydrolase activity, acting on glycosyl bonds; polysaccharide binding; polyubiquitin binding; protein binding; sugar binding; transferase activity, transferring glycosyl groups;

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