

Recombinant Human GBE1 293 Cell Lysate

Cat. No. GBE1-5999HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glucan (1,4-alpha-), branching enzyme 1 (GBE1) 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.

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

GENE INFORMATION
Gene Name

GBE1 glucan (1,4-alpha-), branching enzyme 1 [Homo sapiens]

Official Symbol

GBE1

Synonyms

GBE1; glucan (1,4-alpha-), branching enzyme 1; 1,4-alpha-glucan-branching enzyme; Andersen disease; glycogen branching enzyme; glycogen storage disease type IV; brancher enzyme; glycogen-branching enzyme; amylo-(1,4 to 1,6) transglucosidase; amylo-(1,4 to 1,6) transglycosylase; GBE;

Gene ID

2632

mRNA Refseq

NM_000158

Protein Refseq

NP_000149

MIM

607839

UniProt ID

Q04446

Chromosome Location

3p12.3

Pathway

Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

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Metabolism of carbohydrates, organism-specific biosystem; Starch and sucrose metabolism, organism-specific biosystem;

Function

1,4-alpha-glucan branching enzyme activity; cation binding; hydrolase activity, hydrolyzing O-glycosyl compounds; transferase activity, transferring glycosyl groups;

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