

Recombinant Human A4GALT 293 Cell Lysate

Cat. No. A4GALT-9163HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for alpha 1,4-galactosyltransferase (A4GALT) 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

A4GALT alpha 1,4-galactosyltransferase [Homo sapiens]

Official Symbol

A4GALT

Synonyms

A4GALT; alpha 1,4-galactosyltransferase; alpha 1,4 galactosyltransferase (globotriaosylceramide synthase, P blood group); lactosylceramide 4-alpha-galactosyltransferase; A14GALT; CD77 synthase; Gb3 synthase; Gb3S; globotriaosylceramide synthase; P(k); GB3 synthase; alpha4Gal-T1; P1/Pk synthase; P(k) antigen synthase; P blood group (P one antigen); alpha-1,4-N-acetylglucosaminyltransferase; UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase; P1; PK; A4GALT1;

Gene ID

53947

mRNA Refseq

NM_017436

Protein Refseq

NP_059132

MIM

607922

UniProt ID

Q9NPC4

**Chromosome
Location**

22q13.2

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Pathway

Glycosphingolipid biosynthesis - globo series, organism-specific biosystem;
Glycosphingolipid biosynthesis - globo series, conserved biosystem;
Glycosphingolipid biosynthesis, globo-series, LacCer =>Gb4Cer, organism-specific biosystem; Glycosphingolipid biosynthesis, globo-series, LacCer => Gb4Cer, conserved biosystem; Metabolic pathways, organism-specific biosystem;

Function

galactosyltransferase activity; lactosylceramide 4-alpha-galactosyltransferase activity; transferase activity, transferring glycosyl groups;

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