Recombinant Human ST3GAL1 293 Cell Lysate

Cat. No. ST3GAL1-1442HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for ST3 beta-galactoside alpha-2,3-sialyltransferase 1 (ST3GAL1), 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.

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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	ST3GAL1 ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Homo sapiens]
Official Symbol	ST3GAL1
Synonyms	ST3GAL1; ST3 beta-galactoside alpha-2,3-sialyltransferase 1; sialyltransferase 4A (beta galactosidase alpha 2,3 sialytransferase) , SIAT4A; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 1; SIATFL; ST3Gal I; ST3GalA.1; ST3O; SIAT4-A; ST3GalI; alpha 2,3-ST 1; beta-galactoside alpha-2,3-sialyltransferase 1; Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase; sialyltransferase 4A (beta-galactoside alpha-2,3-sialytransferase); sialyltransferase 4A (beta-galactoside alpha-2,3-sialyltransferase); sialyltransferase 4A (beta-galactosidase alpha-2,3-sialytransferase); SIAT4A; ST3GalA; ST3GalIA; Gal-NAc6S; ST3GalIA,1; MGC9183; FLJ36548; DKFZp666E036; DKFZp779K2051;
Gene ID	6482
mRNA Refseq	NM_003033
Protein Refseq	NP_003024
MIM	607187
UniProt ID	Q11201
Chromosome	8q24.22

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Location	
Pathway	Glycosaminoglycan biosynthesis - keratan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, conserved biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, conserved biosystem; Glycosphingolipid biosynthesis - globo series, organism-specific biosystem; Glycosphingolipid biosynthesis - globo series, conserved biosystem; Metabolic pathways, organism-specific biosystem;

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