

Sialyltransferase 7E (D-25): sc-134000

BACKGROUND

Sialyltransferase 7E, also known as GD1 α synthase or ST6GalNAc V, is a Golgi type II transmembrane glycosyltransferase predominantly expressed in the brain. It belongs to the ST6GalNAc family of Sialyltransferases involved in the biosynthesis of α -series gangliosides. Gangliosides are critical components to a variety of cellular events including cell adhesion, protein targeting, cell-cell interaction and mediation of invasion of vectors. They are glycosphingolipids with sialic acids in the carbohydrate portion. Sialyltransferase 7E is specific for the substrate GM1b, leading to the synthesis of the ganglioside GD1 α . In addition, Sialyltransferase 7E can catalyze the synthesis of Disialyl Lc4 from Sialyl Lc4, leading to the synthesis of disialyl Lewis a.

REFERENCES

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

CHROMOSOMAL LOCATION

Genetic locus: ST6GALNAc5 (human) mapping to 1p31.1; St6galnac5 (mouse) mapping to 3 H3.

SOURCE

Sialyltransferase 7E (D-25) is a Protein A purified rabbit polyclonal antibody raised against synthetic Sialyltransferase 7E peptide of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

Sialyltransferase 7E (D-25) is recommended for detection of Sialyltransferase 7E of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Sialyltransferase 7E siRNA (h): sc-72299, Sialyltransferase 7E siRNA (m): sc-72300, Sialyltransferase 7E shRNA Plasmid (h): sc-72299-SH, Sialyltransferase 7E shRNA Plasmid (m): sc-72300-SH, Sialyltransferase 7E shRNA (h) Lentiviral Particles: sc-72299-V and Sialyltransferase 7E shRNA (m) Lentiviral Particles: sc-72300-V.

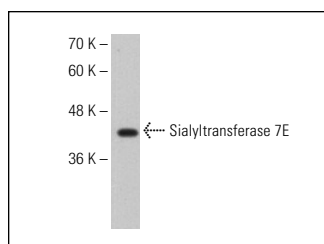
Molecular Weight of Sialyltransferase 7E: 38 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Sialyltransferase 7E (D-25): sc-134000. Western blot analysis of Sialyltransferase 7E expression in Jurkat whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.