

Sialyltransferase 7F (E-21): sc-134001

BACKGROUND

Sialyltransferase 7F, also known as SIAT7F and ST6GalNAc VI, is a 333 amino acid Golgi type II transmembrane glycosyltransferase expressed in the proximal tubule epithelial cells of kidney. Sialyltransferase 7F belongs to the ST6GalNAc family of sialyltransferases involved in the biosynthesis of α -series gangliosides. Gangliosides are glycosphingolipids with sialic acids in the carbohydrate portion and are critical components to a variety of cellular events including cell adhesion, protein targeting, cell-cell interaction and mediation of invasion of vectors. Sialyltransferase 7F acts on the substrates GD1a, GT1b and GM1b, and is responsible for the biosynthesis of DSGG (disialylgalactosylgloboside) from MSGG (monosialylgalactosylgloboside) in kidney. 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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CHROMOSOMAL LOCATION

Genetic locus: ST6GALNAC6 (human) mapping to 9q34.11; St6galnac6 (mouse) mapping to 2 B.

SOURCE

Sialyltransferase 7F (E-21) is an affinity purified rabbit polyclonal antibody raised against synthetic Sialyltransferase 7F peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

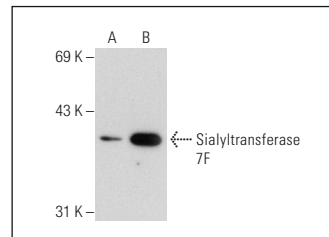
Sialyltransferase 7F (E-21) is recommended for detection of Sialyltransferase 7F of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Sialyltransferase 7F siRNA (h): sc-63022, Sialyltransferase 7F siRNA (m): sc-63023, Sialyltransferase 7F shRNA Plasmid (h): sc-63022-SH, Sialyltransferase 7F shRNA Plasmid (m): sc-63023-SH, Sialyltransferase 7F shRNA (h) Lentiviral Particles: sc-63022-V and Sialyltransferase 7F shRNA (m) Lentiviral Particles: sc-63023-V.

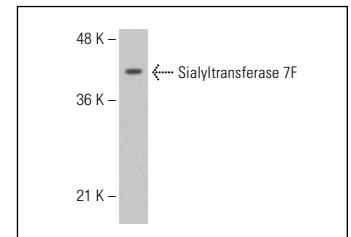
Molecular Weight of Sialyltransferase 7F: 38 kDa.

Positive Controls: Sialyltransferase 7F (m): 293T Lysate: sc-127538 or Hep G2 cell lysate: sc-2227.

DATA



Sialyltransferase 7F (E-21): sc-134001. Western blot analysis of Sialyltransferase 7F expression in non-transfected: sc-117752 (A) and mouse Sialyltransferase 7F transfected: sc-127538 (B) 293T whole cell lysates.



Sialyltransferase 7F (E-21): sc-134001. Western blot analysis of Sialyltransferase 7F expression in Hep G2 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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.