SANTA CRUZ BIOTECHNOLOGY, INC.

FucT-VIII (S-17): sc-34629

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Fucosyltransferases catalyze the covalent association of fucose to different positional linkages in sugar acceptor molecules. The carbohydrate moieties generated and covalently attached to cell surfaces are necessary to ensure a surface contour that satisfies physiological roles, which are reliant on adhesion molecules such as Selectins. Hematopoietic lineages rely on Fucosyltransferases to confer a surface carbohydrate phenotype, which mediates proper cell adhesion molecule recruitment and cell trafficking. α-(1,6)-fucosyltransferase or Fucosyltransferase 8 (FucT-VIII) catalyzes the addition of fucose in α1-6 linkage to the innermost GlcNAc residue of an N-linked oligosaccharide.

CHROMOSOMAL LOCATION

Genetic locus: FUT8 (human) mapping to 14q23.3; Fut8 (mouse) mapping to 12 C3.

SOURCE

FucT-VIII (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FucT-VIII of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-34629 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

FucT-VIII (S-17) is recommended for detection of FucT-VIII isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FucT-VIII (S-17) is also recommended for detection of FucT-VIII isoforms 1 and 2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FucT-VIII siRNA (h): sc-45757, FucT-VIII siRNA (m): sc-45758, FucT-VIII shRNA Plasmid (h): sc-45757-SH, FucT-VIII shRNA Plasmid (m): sc-45758-SH, FucT-VIII shRNA (h) Lentiviral Particles: sc-45757-V and FucT-VIII shRNA (m) Lentiviral Particles: sc-45758-V.

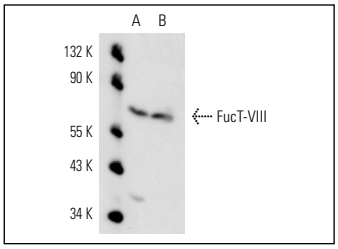
Molecular Weight of FucT-VIII: 67 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226 or ES-2 cell lysate: sc-24674.

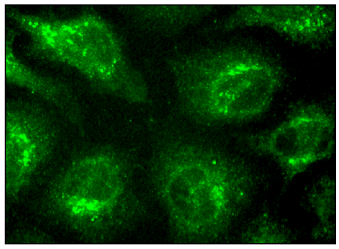
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FucT-VIII (S-17): sc-34629. Western blot analysis of FucT-VIII expression in ES-2 (**A**) and COLO 320DM (**B**) whole cell lysates.



FucT-VIII (S-17): sc-34629. Immunofluorescence staining of methanol-fixed HeLa cells showing Golgi apparatus localization.

PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **FucT-VIII (B-10): sc-271244**, our highly recommended monoclonal alternative to FucT-VIII (S-17).