

FucT-VIII (H-200): sc-68941

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 α 1-6 linkage to the innermost GlcNAc residue of an N-linked oligosaccharide.

REFERENCES

1. Yanagidani, S., et al. 1997. Purification and cDNA cloning of GDP-L-Fuc:N-acetyl- β -D-glucosaminide: α 1-6 fucosyltransferase (α 1-6 FucT) from human gastric cancer MKN45 cells. *J. Biochem.* 121: 626-632.
2. White, K.E., et al. 2000. Molecular cloning of a novel human UDP-GalNAc: polypeptide N-acetylgalactosaminyltransferase, GalNAc-T8 and analysis as a candidate autosomal dominant hypophosphatemic rickets (ADHR) gene. *Gene* 246: 347-356.

CHROMOSOMAL LOCATION

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

SOURCE

FucT-VIII (H-200) is a rabbit polyclonal antibody raised against amino acids 31-230 mapping near the N-terminus of FucT-VIII of human origin.

PRODUCT

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

APPLICATIONS

FucT-VIII (H-200) 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 μ g per 100-500 μ g 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 (H-200) 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 siRNA (r): sc-270051, FucT-VIII shRNA Plasmid (h): sc-45757-SH, FucT-VIII shRNA Plasmid (m): sc-45758-SH, FucT-VIII shRNA Plasmid (r): sc-270051-SH, FucT-VIII shRNA (h) Lentiviral Particles: sc-45757-V, FucT-VIII shRNA (m) Lentiviral Particles: sc-45758-V and FucT-VIII shRNA (r) Lentiviral Particles: sc-270051-V.

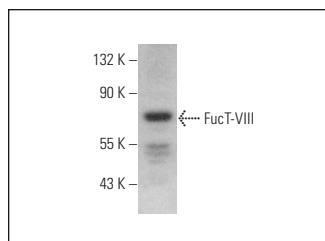
Molecular Weight of FucT-VIII: 67 kDa.

Positive Controls: MDA-MB-231 cell lysate: sc-2232.

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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FucT-VIII (H-200): sc-68941. Western blot analysis of FucT-VIII expression in MDA-MB-231 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.


 MONOS
Satisfaction
Guaranteed

Try **FucT-VIII (B-10): sc-271244**, our highly recommended monoclonal alternative to FucT-VIII (H-200).