

GCNT3 (h): 293 Lysate: sc-112929

BACKGROUND

Belonging to the glycosyltransferase 14 family, GCNT3, also known as β 1,3-galactosyl-O-glycosyl-glycoprotein β -1,6-N-acetylglucosaminyltransferase 3 or core 2/core 4 β 1,6-N-acetylglucosaminyltransferase (C2/4GnT), is a 438 amino acid glycosyltransferase that is localized to the Golgi apparatus. Other members of this family include GCNT1, GCNT2, GCNT3, GCNT4 and GCNT6. GCNT3 has been shown to play an important regulatory role in the synthesis of all known mucin β 6-N-acetylglucosaminides and in mediating core 2 and core 4 O-glycan branching, two important steps in mucin-type biosynthesis. Primarily expressed in mucus-secreting tissues, GCNT3 displays I-branching enzyme activity by converting linear into branched poly-N-acetylglucosaminoglycans, leading to the introduction of the blood group I antigen during embryonic development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GCNT3 (human) mapping to 15q22.2.

PRODUCT

GCNT3 (h): 293 Lysate represents a lysate of human GCNT3 transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

GCNT3 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive GCNT3 antibodies. Recommended use: 10-20 μ l per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.