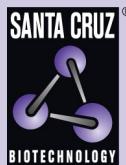


GnT-III (T-20): sc-27277



The Power to Question

BACKGROUND

GnT-III (also designated N-acetylglucosaminyltransferase III and GlcNAc-T III) catalyzes the transfer of a N-acetylglucosamine residue to the β -linked mannose of the trimannosyl core of N-linked oligosaccharides, thereby inhibiting the extension of N-glycans by introducing a bisecting N-acetylglucosamine residue. Overexpression of GnT-III suppresses H_2O_2 -induced activation of the PKC δ -JNK1 pathway, resulting in inhibition of apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MGAT3 (human) mapping to 22q13.1; Mgat3 (mouse) mapping to 15 E1.

SOURCE

GnT-III (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GnT-III 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.

Blocking peptide available for competition studies, sc-27277 P, (100 μ g 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

GnT-III (T-20) is recommended for detection of GnT-III 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).

GnT-III (T-20) is also recommended for detection of GnT-III in additional species, including canine, bovine and avian.

Suitable for use as control antibody for GnT-III siRNA (h): sc-43808, GnT-III siRNA (m): sc-63308, GnT-III shRNA Plasmid (h): sc-43808-SH, GnT-III shRNA Plasmid (m): sc-63308-SH, GnT-III shRNA (h) Lentiviral Particles: sc-43808-V and GnT-III shRNA (m) Lentiviral Particles: sc-63308-V.

Molecular Weight of non-glycosylated GnT-III: 53 kDa.

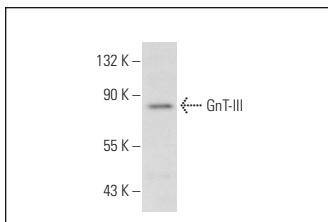
Molecular Weight of glycosylated GnT-III: 63 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or GnT-III (h): 293T Lysate: sc-128719.

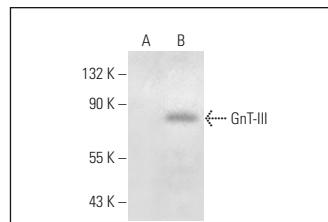
RECOMMENDED SECONDARY REAGENTS

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



GnT-III (T-20): sc-27277. Western blot analysis of GnT-III expression in HeLa whole cell lysate.



GnT-III (T-20): sc-27277. Western blot analysis of GnT-III expression in non-transfected: sc-117752 (**A**) and human GnT-III transfected: sc-128719 (**B**) 293T whole cell lysates.

PROTOCOLS

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