

GnT-II (S-21): sc-133631

BACKGROUND

GnT-II (mannosyl (α -1,6-)-glycoprotein β -1, 2-N-acetylgluco- saminyltransferase, GlcNAc-T II) is a Golgi enzyme that catalyzes the conversion of oligo-mannose into complex N-glycans and plays an important role in dietary fat absorption. Human MGAT2 transcript is abundant in the small intestine, liver, stomach, kidney, colon and white adipose tissue. Mouse MGAT2 transcript is abundant in the small intestine.

REFERENCES

1. Tan, J., et al. 1995. The human UDP-N-acetylglucosamine: α -6-D-mannoside- β -1,2- N-acetylglucosaminyltransferase II gene (MGAT2). Cloning of genomic DNA, localization to chromosome 14q21, expression in insect cells and purification of the recombinant protein. *Eur. J. Biochem.* 231: 317-328.
2. Cao, J., et al. 2003. Cloning and functional characterization of a mouse intestinal acyl-CoA:monoacylglycerol acyltransferase, MGAT2. *J. Biol. Chem.* 278: 13860-13866.
3. Yen, C.L., et al. 2003. MGAT2, a monoacylglycerol acyltransferase expressed in the small intestine. *J. Biol. Chem.* 278: 18532-18537.
4. LocusLink Report (LocusID: 4247). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: MGAT2 (human) mapping to 14q22.1; Mgat2 (mouse) mapping to 12 C2.

SOURCE

GnT-II (S-21) is a Protein A purified rabbit polyclonal antibody raised against synthetic GnT-II peptide of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

GnT-II (S-21) is recommended for detection of GnT-II 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GnT-II siRNA (h): sc-106777, GnT-II siRNA (m): sc-145662, GnT-II shRNA Plasmid (h): sc-106777-SH, GnT-II shRNA Plasmid (m): sc-145662-SH, GnT-II shRNA (h) Lentiviral Particles: sc-106777-V and GnT-II shRNA (m) Lentiviral Particles: sc-145662-V.

Molecular Weight of GnT-II: 56 kDa.

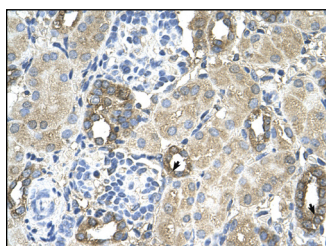
RESEARCH USE

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

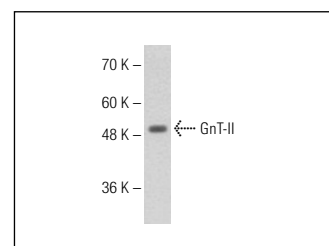
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



GnT-II (S-21): sc-133631. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human kidney tissue showing cytoplasmic localization.



GnT-II (S-21): sc-133631. Western blot analysis of GnT-II expression in Jurkat 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.

PROTOCOLS

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