



HEC-GlcNAc6ST (C-13): sc-49025

BACKGROUND

The GlcNAc-6-sulfotransferases are a family of Golgi-resident proteins that regulate glycan function. HEC-GlcNAc6ST is greatly limited in its expression at the protein level. Detection of protein expression is observed in HEVs (high endothelial venules) in lymph nodes and HEV-like vessels in instances of lymphoid neogenesis. The other members of the GlcNAc6ST family differ from HEC-GlcNAc6ST in that they are presumed to have a wider tissue distribution based on Northern analysis. HEC-GlcNAc6ST is not expressed in the HEVs of PPs (Peyer's patches), and as an HEV-localized sulfotransferase, it is essential for the elaboration of functional ligands within lymph nodes, as well as the generation of the MECA-79 defined luminal ligands.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CHST4 (human) mapping to 16q22.3; Chst4 (mouse) mapping to 8.

SOURCE

HEC-GlcNAc6ST (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of HEC-GlcNAc6ST of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-49025 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HEC-GlcNAc6ST (C-13) is recommended for detection of HEC-GlcNAc6ST of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for HEC-GlcNAc6ST siRNA (h): sc-60776.

Molecular Weight of HEC-GlcNAc6ST: 40 kDa.

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) 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.

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.