HEC-GlcNAc6ST (G-14): sc-49026



The Power to Question

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 16q22.2; Chst4 (mouse) mapping to 8 D3.

SOURCE

HEC-GlcNAc6ST (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-49026 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HEC-GlcNAc6ST (G-14) is recommended for detection of HEC-GlcNAc6ST of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

HEC-GlcNAc6ST (G-14) is also recommended for detection of HEC-GlcNAc6ST in additional species, including bovine and porcine.

Suitable for use as control antibody for HEC-GlcNAc6ST siRNA (h): sc-60776, HEC-GlcNAc6ST siRNA (m): sc-60777, HEC-GlcNAc6ST shRNA Plasmid (h): sc-60776-SH, HEC-GlcNAc6ST shRNA Plasmid (m): sc-60777-SH, HEC-GlcNAc6ST shRNA (h) Lentiviral Particles: sc-60776-V and HEC-GlcNAc6ST shRNA (m) Lentiviral Particles: sc-60777-V.

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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 **Europe** +00800 4573 8000 49 6221 4503 0 **www.scbt.com**