**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**


**CHROMOSOMAL LOCATION**

Genetic locus: Chst4 (mouse) mapping to 8 D3.

**SOURCE**

HEC-GlcNAc6ST (M-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of HEC-GlcNAc6ST of mouse origin.

**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-49029 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

HEC-GlcNAc6ST (M-12) is recommended for detection of HEC-GlcNAc6ST of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 HEC-GlcNAc6ST siRNA (m): sc-60777, HEC-GlcNAc6ST shRNA Plasmid (m): sc-60777-SH and HEC-GlcNAc6ST shRNA (m) Lentiviral Particles: sc-60777-V.

**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), 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

**DATA**

HEC-GlcNAc6ST (M-12) is sc-49029. Western blot analysis of HEC-GlcNAc6ST expression in NIH/3T3 (A), KNRK (B) and PC-12 (C) whole cell lysates.

**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 website at www.scbt.com or our catalog for detailed protocols and support products.