



## HEC-GlcNAc6ST (G-17): sc-49027

### 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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2. Bistrup, A., Tsay, D., Shenoy, P., Singer, M.S., Bangia, N., Luther, S.A., Cyster, J.G., Ruddle, N.H. and Rosen, S.D. 2004. Detection of a sulfotransferase (HEC-GlcNAc6ST) in high endothelial venules of lymph nodes and in high endothelial venule-like vessels within ectopic lymphoid aggregates: relationship to the MECA-79 epitope. *Am. J. Pathol.* 164: 1635-1644.
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4. Nishimura, M., Imai, T., Morioka, Y., Kuribayashi, S., Kamataki, T. and Naito, S. 2004. Effects of NO-1886 (Ibrolipim), a lipoprotein lipase-promoting agent, on gene induction of cytochrome P450s, carboxylesterases and sulfotransferases in primary cultures of human hepatocytes. *Drug Metab. Pharmacokinet.* 19: 422-429.
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6. Rosen, S.D., Tsay, D., Singer, M.S., Hemmerich, S. and Abraham, W.M. 2005. Therapeutic targeting of endothelial ligands for L-Selectin (PNAd) in a sheep model of asthma. *Am. J. Pathol.* 166: 935-944.

### CHROMOSOMAL LOCATION

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

### SOURCE

HEC-GlcNAc6ST (G-17) 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  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-49027 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

HEC-GlcNAc6ST (G-17) is recommended for detection of HEC-GlcNAc6ST of 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).

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](http://www.scbt.com) or our catalog for detailed protocols and support products.