SANTA CRUZ BIOTECHNOLOGY, INC.

HS3ST6 (L-12): sc-107617

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Heparan sulfate structures, which are responsible for executing multiple biological activities, are generated and regulated by heparan sulfate biosynthetic enzymes. HS3ST6 (heparan sulfate glucosamine 3-O-sulfotransferase 6) is a 342 amino acid single-pass type II transmembrane protein that localizes to the golgi apparatus and belongs to the sulfotransferase 1 family. HS3ST6 transfers sulfate to the 3-OH position of the glucosamine residue of heparan sulfate to form 3-O-sulfated heparan sulfate. Due to observed susceptibility of HS3ST6-transfected CHO cells to HSV-1 infection, it has been suggested that HS3ST6 produces a specific entry receptor for HSV-1. The gene encoding HS3ST6 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HS3ST6 (human) mapping to 16p13.3; Hs3st6 (mouse) mapping to 17 A3.3.

SOURCE

HS3ST6 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HS3ST6 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-107617 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HS3ST6 (L-12) is recommended for detection of HS3ST6 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).

Suitable for use as control antibody for HS3ST6 siRNA (h): sc-93497, HS3ST6 siRNA (m): sc-146088, HS3ST6 shRNA Plasmid (h): sc-93497-SH, HS3ST6 shRNA Plasmid (m): sc-146088-SH, HS3ST6 shRNA (h) Lentiviral Particles: sc-93497-V and HS3ST6 shRNA (m) Lentiviral Particles: sc-146088-V.

Molecular Weight of HS3ST6: 37 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.