CHST5 (V-14): sc-68029



The Power to Question

BACKGROUND

Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs and xenobiotic compounds. These enzymes differ in their tissue distributions and substrate specificities, although the gene structure (number and length of exons) is similar among family members. Carbohydrate sulfotransferase 5 (CHST5) (also referred to as GlcNAc6ST-3 or IGn6ST) and carbohydrate sulfotransferase 6 (CHST6) (also referred to as GlcNAc6ST-5 or Cgn6ST) are predominantly expressed in the intestine and cornea, respectively. They are highly homologous and both are orthologs of the murine CHST5. CHST5 and CHST6 may be the result of gene duplication. They catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues. CHST5 preferably mediates the sulfation of short carbohydrates and 0-linked sugars of mucin-type acceptors. CHST6 mediates the sulfation of keratan in the cornea, which is important in maintaining corneal transparency.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: Chst5 (mouse) mapping to 8 E1.

SOURCE

CHST5 (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CHST5 of mouse origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68029 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CHST5 (V-14) is recommended for detection of CHST5 of mouse and rat 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).

CHST5 (V-14) is also recommended for detection of CHST5 in additional species, including equine and canine.

Suitable for use as control antibody for CHST5 siRNA (m): sc-62119, CHST5 shRNA Plasmid (m): sc-62119-SH and CHST5 shRNA (m) Lentiviral Particles: sc-62119-V.

Molecular Weight of CHST5: 44 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**