

# CHST9 (L-18): sc-68036

## 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 9 (CHST9), also referred to as GalNAc-4-ST2, catalyzes the transfer of sulfate groups to position four of non-reducing terminal N-acetylgalactosamine (GalNAc) residues of N-glycans and O-glycans. Human CHST9 is strongly expressed in the trachea and murine CHST9 is predominantly expressed in the pituitary. CHST9 belongs to the HNK-1ST family of sulfotransferases and is highly homologous to CHST8. CHST8 and CHST9 have different substrate specificity but both are capable of transferring sulfate to the glycoproteins Lutropin, thyrotropin, Tenascin-R, carbonic anhydratase-VI and proopiomelanocortin.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CHST9 (human) mapping to 18q11.2; Chst9 (mouse) mapping to 18 A1.

## SOURCE

CHST9 (L-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CHST9 of human origin.

## 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-68036 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CHST9 (L-18) is recommended for detection of CHST9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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).

CHST9 (L-18) is also recommended for detection of CHST9 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CHST9 siRNA (h): sc-62122, CHST9 siRNA (m): sc-62123, CHST9 shRNA Plasmid (h): sc-62122-SH, CHST9 shRNA Plasmid (m): sc-62123-SH, CHST9 shRNA (h) Lentiviral Particles: sc-62122-V and CHST9 shRNA (m) Lentiviral Particles: sc-62123-V.

Molecular Weight of CHST9: 52 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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). 3) 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<sup>™</sup> Mounting Medium: sc-24941.

## STORAGE

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

## 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.