

DESCRIPTION

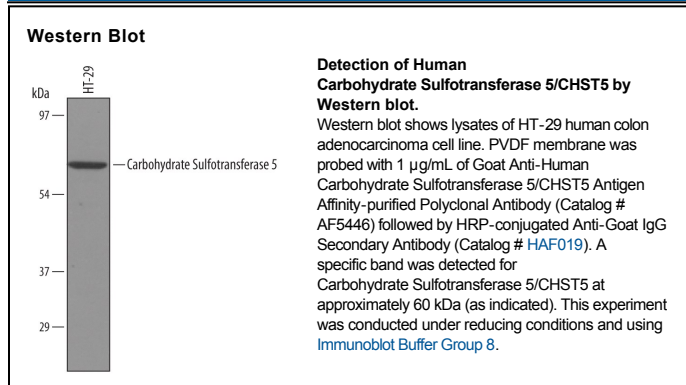
Species Reactivity	Human
Specificity	Detects human Carbohydrate Sulfotransferase 5/CHST5 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) CHST1, rhCHST2, rmCHST5, and rmCHST7 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Carbohydrate Sulfotransferase 5/CHST5 Ser28-Arg390 Accession # Q9GZS9
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Carbohydrate Sulfotransferase 5/CHST5, see our available Western blot detection antibodies

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CHST5 (Carbohydrate sulfotransferase 5; also GlcNAc6ST-3, I-GlcNAc6ST and GST4α) is likely a 53-56 kDa member of the sulfotransferase family of enzymes. It is a Golgi-embedded enzyme that is found in T cells, B cells and intestinal epithelium. It appears to act only on short carbohydrates and transfers sulfate to position # 6 of mucin-associated GlcNAc. Human CHST5 is a 390 amino acid (aa) type II transmembrane protein. It contains a short cytoplasmic segment (aa 1-9) and a long luminal domain (aa 28-390) that contains an enzymatic region (aa 180-358). There is one alternate start site that is 22 aa upstream of the standard site. Humans have a GST4-α and -β gene, the result of gene duplication. Over aa 28-390, these two gene products share 87% aa identity. Mouse has only one GST4 gene, and it is functionally related to human GST4-β. Over aa 28-390, human GST4-α/CHST5 is 78% aa identical to mouse GST4.