

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
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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