



# GalNAc4ST-1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-03889
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	CHST8
<b>Protein Name</b>	Carbohydrate sulfotransferase 8
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CHST8. AA range:341-390
<b>Specificity</b>	GalNAc4ST-1 Polyclonal Antibody detects endogenous levels of GalNAc4ST-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CHST8; Carbohydrate sulfotransferase 8; GalNAc-4-O-sulfotransferase 1; GalNAc-4-ST1; GalNAc4ST-1; N-acetylgalactosamine-4-O-sulfotransferase 1
<b>Observed Band</b>	40kD
<b>Cell Pathway</b>	Golgi apparatus membrane ; Single-pass type II membrane protein .
<b>Tissue Specificity</b>	Predominantly expressed in pituitary gland. In brain, it is expressed in pituitary gland, cerebellum, medulla oblongata, pons, thalamus and spinal cord. Expressed in the epidermis. Expressed at lower level in lung, spleen, adrenal gland, placenta, prostate, testis, mammary gland and trachea.
<b>Function</b>	caution:PubMed:10988300 reports the possible existence of a secreted isoform starting at Met-119. However, they do not provide any experimental evidence..function:Catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Required for biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Only active against terminal GalNAcbeta1, GalNAcbeta. Not active toward chondroitin..induction:Down-regulated (17-fold) in prion-infected cells..similarity:Belongs to the sulfotransferase 2 family..tissue specificity:Predominantly expressed in pituitary gland. In brain, it is expressed in pituitary gland, cerebellum, medulla oblongata, pons, thalamus and spinal cord. Expressed at lower level in lung, spleen, adrenal gland, placenta, prostate, testis,



mammary glan

## Background

The protein encoded by this gene belongs to the sulfotransferase 2 family. It is predominantly expressed in the pituitary gland, and is localized to the golgi membrane. This protein catalyzes the transfer of sulfate to position 4 of non-reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. It is responsible for sulfation of GalNAc on luteinizing hormone (LH), which is required for production of the sex hormones. Mice lacking this enzyme, exhibit increased levels of circulating LH, and precocious sexual maturation of both male and female mice. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2011],

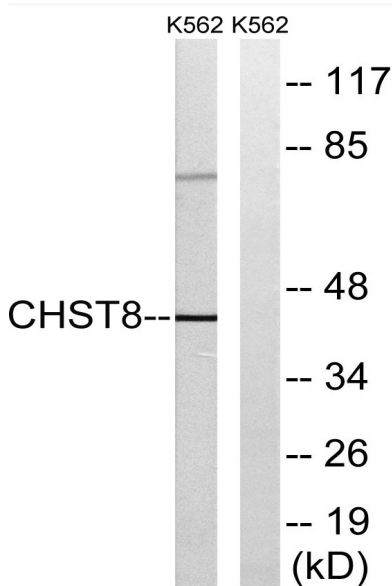
## matters needing attention

Avoid repeated freezing and thawing!

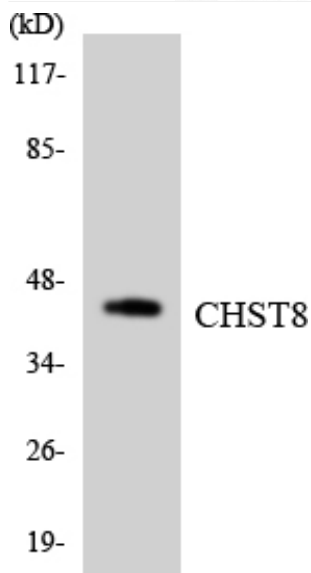
## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western blot analysis of lysates from K562 cells, using CHST8 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using CHST8 antibody.