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Chst2 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12680

Product Information

Application	WB
Primary Accession	Q80WV3
Other Accession	NM_018763, NP_061233
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rabbit, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57828

Additional Information

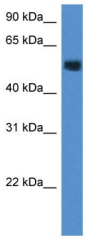
Gene ID	54371
Alias Symbol	AI428561, AW121776, C130041E03Rik, Chts2, GST-2, GlcNAc6ST, Gn6st
Other Names	Carbohydrate sulfotransferase 2, 2.8.2.-, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2, GST-2, N-acetylglucosamine 6-O-sulfotransferase 1, GlcNAc6ST-1, Gn6st-1, Chst2, Gst2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Chst2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Chst2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Chst2
Synonyms	Gst2
Function	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues within keratan-like structures on N- and O-linked glycans and within O-linked mucin-type glycans (PubMed:15175329, PubMed:16227985, PubMed:9712885). Selectively transfers the sulfate group onto the terminal GlcNAc of alpha1,3-Man or

	alpha1,6-Man antenna of complex-type N-glycans depending on glycan composition. Only sulfates terminal GlcNAc of alpha1,3-Man antenna of G0 complex-type N-glycans. Can sulfate keratan- type N-acetyllactosamine (LacNAc) repeats generating epitopes for self versus non-self immune recognition by C-type lectins (By similarity). Transfers the sulfate group primarily on core 2 GlcNAcbeta1-6(Galbeta1- 3)GalNAcalpha-Ser/Thr and with lower efficiency on extended core 1 GlcNAcbeta1-3Galbeta1-3GalNAcalpha-Ser/Thr based O-linked glycans on peripheral node addressins (PNAds) expressed on the lumenal side of high endothelial venules (HEVs). Shares substrate specificity with CHST4 and both contribute to generate sialyl 6-sulfo Lewis X determinant (also known as MECA-79 epitope) for SELL recognition, a prerequisite for continuous lymphocyte homing into peripheral lymph nodes and antigen immune surveillance (PubMed:15175329, PubMed:16227985). Has no activity toward alpha-linked GlcNAc moiety exposed at the non-reducing ends or to internally located GlcNAc residues (By similarity).
Cellular Location	Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q9Y4C5}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q9Y4C5}
Tissue Location	In brain, it is expressed in pyramidal cells in the CA3 subregion of the hippocampus, cerebellar nucleus and Purkinje cells. Expressed in peripheral lymph nodes

Images



WB Suggested Anti-Chst2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Brain

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.