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GAL3ST4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12993c

Product Information

Application	WB, E
Primary Accession	Q96RP7
Other Accession	NP_078913.3
Reactivity	Human
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32574
Calculated MW	54166
Antigen Region	201-230

Additional Information

Gene ID	79690
Other Names	Galactose-3-O-sulfotransferase 4, Gal3ST-4, 282-, Beta-galactose-3-O-sulfotransferase 4, Gal-beta-1, 3-GalNAc 3'-sulfotransferase, GAL3ST4
Target/Specificity	This GAL3ST4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 201-230 amino acids from the Central region of human GAL3ST4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GAL3ST4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GAL3ST4 (HGNC:24145)
Function	Catalyzes the transfer of a sulfate group from 3'- phosphoadenylyl sulfate

	(PAPS) to the C-3 hydroxyl group of terminal non-reducing beta-1,3-linked galactose residues, exclusively in O- linked glycoproteins (PubMed:11333265, PubMed:14701868). Participates in galactose sulfation and acts on core 1 (Gal-beta-1,3-GalNAc-R) structures (PubMed:11333265, PubMed:14701868). In vitro, also recognizes Gal-beta-1,3 (GlcNAc-beta-1,6)GalNAc-R, asialofetuin, the Globo H precursor and Gal-beta-1,3(6-O-sulfo)GalNAc-R structures as good substrates (PubMed:11333265, PubMed:14701868).
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein
Tissue Location	Expressed mainly in placenta, thymus, testis, ovary, spinal cord, trachea and adrenal gland and at low levels in brain, lung, spleen, prostate, small intestine, colon, stomach thyroid and lymph node.

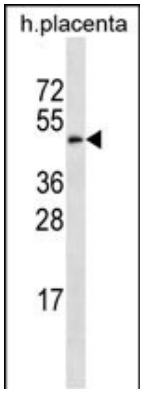
Background

This gene encodes a member of the galactose-3-O-sulfotransferase protein family. The product of this gene catalyzes sulfonation by transferring a sulfate to the C-3' position of galactose residues in O-linked glycoproteins. This enzyme is highly specific for core 1 structures, with asialofetuin, Gal-beta-1,3-GalNAc and Gal-beta-1,3 (GlcNAc-beta-1,6)GalNAc being good substrates.

References

Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004)
Chandrasekaran, E.V., et al. J. Biol. Chem. 279(11):10032-10041(2004)
Seko, A., et al. J. Biol. Chem. 276(28):25697-25704(2001)

Images



GAL3ST4 Antibody (Center) (Cat. #AP12993c) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the GAL3ST4 antibody detected the GAL3ST4 protein (arrow).

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