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GAL3ST4 Rabbit pAb

Catalog # AP96777

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96RP7
Other Accession	Q96RP7
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54166
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GAL3ST4
Epitope Specificity	401-486/486
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the galactose-3-O-sulfotransferase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	79690
Other Names	GAL3ST-4; G3ST4_HUMAN; GAL3ST4; Beta-galactose-3-O-sulfotransferase 4; Gal-beta-1, 3-GalNAc 3'-sulfotransferase; 2.8.2.-; galactose-3-O-sulfotransferase 4
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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