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GAL3ST2 Rabbit pAb

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Catalog # AP56178

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H3Q3
Reactivity	Rat
Predicted	Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46110
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GAL3ST2
Epitope Specificity	1-100/398
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus; Golgi stack membrane.
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 group to the hydroxyl at C-3 of nonreducing beta-galactosyl residues, and it can act on both type 1 and type 2 (Galbeta 1-3/1-4GlcNAc-R) oligosaccharides with similar efficiencies, and on core 1 glycans. This enzyme has been implicated in tumor metastasis processes. This gene is different from the GAL3ST3 gene located on chromosome 11, which has also been referred to as GAL3ST2 and encodes a related enzyme with distinct tissue distribution and substrate specificities, compared to galactose-3-O-sulfotransferase 2. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	64090
Other Names	Galactose-3-O-sulfotransferase 2, Gal3ST-2, 2.8.2.-, Beta-galactose-3-O-sulfotransferase 2, Gal-beta-1, 3-GalNAc 3'-sulfotransferase 2, Glycoprotein beta-Gal 3'-sulfotransferase 2, GAL3ST2 (HGNC:24869)
Dilution	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.

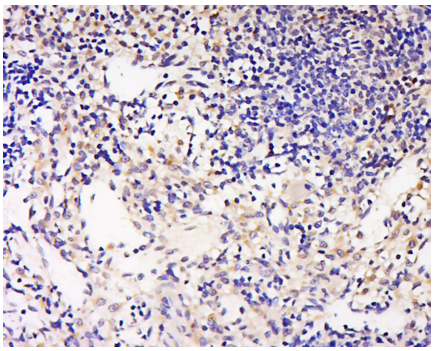
Protein Information

Name	GAL3ST2 (HGNC:24869)
Function	Catalyzes the transfer of a sulfate group from 3'- phosphoadenylyl sulfate (PAPS) to the C-3 hydroxyl group of terminal non-reducing beta-galactosyl residues (PubMed:11029462, PubMed:14701868, PubMed:15926885). Acts both on type 1 (Gal-beta-1,3- GlcNAc-R) and type 2 (Gal-beta-1,4-GlcNAc-R) chains with similar efficiency (PubMed:11029462, PubMed:14701868, PubMed:15926885). Displays species-dependent substrate specificity (PubMed:15926885). Participates in galactose sulfation and shows substrate preference for structures such as lactose, lacto-N-tetraose (Lc4), lacto-N-neotetraose (nLc4), the Gal-beta-1,4-GlcNAc-beta unit in mucin core-2, and the cancer antigen Globo H precursor Gal-beta-1,3-GlcNAc-beta-1,3-Gal-R (PubMed:11029462, PubMed:14701868, PubMed:15926885).
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein
Tissue Location	Ubiquitous. Detected in heart, stomach, colon, liver and spleen, in epithelial cells lining the lower to middle layer of the crypts in colonic mucosa, hepatocytes surrounding the central vein of the liver, extravillous cytotrophoblasts in the basal plate of the septum of the placenta, renal tubules of the kidney, and neuronal cells of the cerebral cortex.

Background

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Images



Tissue/cell: Rat spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-GAL3ST2 Polyclonal Antibody, Unconjugated(AP56178) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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