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B4GALT6 Rabbit pAb

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Catalog # AP58010

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UBX8
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44914
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human B4GALT6
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
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 is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzyme encoded by this gene is a lactosylceramide synthase important for glycolipid biosynthesis. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	9331
Other Names	Beta-1, 4-galactosyltransferase 6, Beta-1, 4-GalTase 6, Beta4Gal-T6, b4Gal-T6, 2.4.1.-, Glucosylceramide beta-1, 4-galactosyltransferase, 2.4.1.274, Lactosylceramide synthase, LacCer synthase, UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 6, UDP-Gal:glucosylceramide beta-1, 4-galactosyltransferase, UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 6, B4GALT6 (HGNC:929)
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	B4GALT6 (HGNC:929)
Function	Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:1551920, PubMed:24498430, PubMed:3099851). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (By similarity).
Cellular Location	Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:P15291}; Single-pass type II membrane protein Note=Trans cisternae of Golgi stack. {ECO:0000250|UniProtKB:P15291}
Tissue Location	High expression in brain and adrenal gland, lower in liver, lung, colon and peripheral white blood cells

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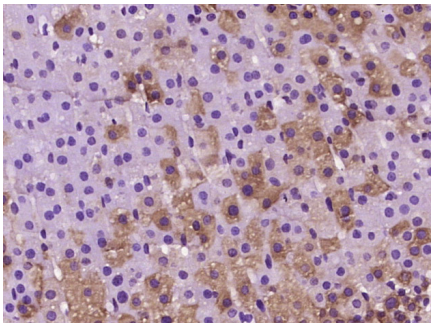
Images



Paraformaldehyde-fixed, paraffin embedded (rat adrenal gland tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (B4GALT6) Polyclonal Antibody, Unconjugated (AP58010) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.