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Anti-B4GALT5 Antibody

Catalog # AP59777

Product Information

Application	WB, IF/IC
Primary Accession	O43286
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45119

Additional Information

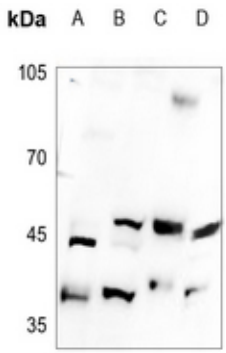
Gene ID	9334
Other Names	Beta-1, 4-galactosyltransferase 5; Beta-1, 4-GalTase 5; Beta4Gal-T5; b4Gal-T5; Beta-1, 4-GalT II; UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 5; UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human B4GALT5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

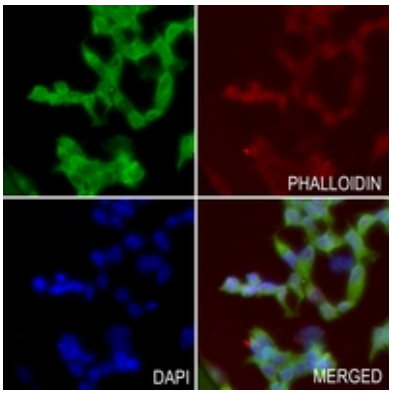
Name	B4GALT5 (HGNC:928)
Function	Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:24498430). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (By similarity). Plays a role in the glycosylation of BMPR1A and regulation of its protein stability (By similarity). Essential for extraembryonic development during early embryogenesis (By similarity).
Cellular Location	Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:P15291}; Single-pass type II membrane protein Golgi apparatus {ECO:0000250|UniProtKB:A0A1S6M251}. Note=Trans cisternae of Golgi stack. {ECO:0000250|UniProtKB:P15291}

Tissue Location Ubiquitously expressed.

Images



Western blot analysis of B4GALT5 expression in K562 (A), A549 (B), mouse heart (C), rat brain (D) whole cell lysates. (Predicted band size: 45 kD; Observed band size: 45 kD)



Immunofluorescent analysis of B4GALT5 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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