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UGT8 antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11630c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q16880
Other Accession	Q09426, Q64676, NP_001121646.1, NP_003351.2
Reactivity	Human, Rat, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29672
Calculated MW	61438
Antigen Region	366-393

Additional Information

Gene ID	7368
Other Names	2-hydroxyacylsphingosine 1-beta-galactosyltransferase, Ceramide UDP-galactosyltransferase, Cerebroside synthase, UDP-galactose-ceramide galactosyltransferase, UGT8, CGT, UGT4
Target/Specificity	This UGT8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 366-393 amino acids from the Central region of human UGT8.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	UGT8 antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UGT8 (HGNC:12555)
Synonyms	CGT, UGT4

Function	Catalyzes the transfer of galactose to ceramide, a key enzymatic step in the biosynthesis of galactocerebrosides, which are abundant sphingolipids of the myelin membrane of the central nervous system and peripheral nervous system (PubMed:9125199). Galactosylates both hydroxy- and non-hydroxy fatty acid-containing ceramides and diglycerides (By similarity).
Cellular Location	Membrane; Single-pass membrane protein. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q09426}

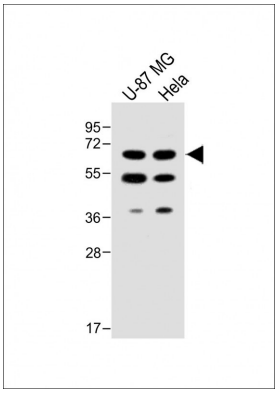
Background

Galactocerebrosides are abundant sphingolipids of the myelin membrane of the central nervous system and peripheral nervous system and are also present in small amounts in kidney. The key enzymatic step in the biosynthesis of galactocerebrosides consists of the transfer of galactose to ceramide catalyzed by UDP-galactose ceramide galactosyltransferase (CGT, EC 2.4.1.45). The enzyme encoded by the CGT gene is the first involved in complex lipid biosynthesis in the myelinating oligodendrocyte.[supplied by OMIM].

References

Dziecedil Giel, P., et al. Br. J. Cancer 103(4):524-531(2010)
Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)
Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)
Ruckhaberle, E., et al. J. Cancer Res. Clin. Oncol. 135(8):1005-1013(2009)
Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)

Images



All lanes : Anti-UGT8 antibody (Center) at 1:1000 dilution Lane 1: U-87 MG whole cell lysate Lane 2: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 61 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- The miR-30 Family Inhibits Pulmonary Vascular Hyperpermeability in the Premetastatic Phase by Direct Targeting of Skp2.