10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-UGT8 Antibody

Catalog # AP51985

Product Information

Application	WB, IF/IC
Primary Accession	Q16880
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61438

Additional Information

Gene ID	7368
Other Names	CGT; UGT4; 2-hydroxyacylsphingosine 1-beta-galactosyltransferase; Ceramide UDP-galactosyltransferase; Cerebroside synthase; UDP-galactose-ceramide galactosyltransferase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human UGT8. 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

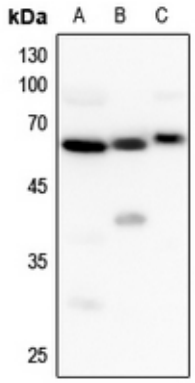
Protein Information

Name	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}

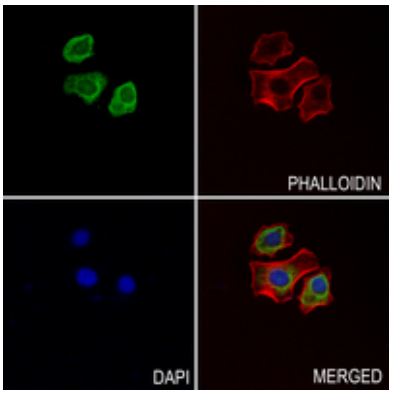
References

Bosio A.,et al.Genomics 34:69-75(1996).
Kapitonov D.E.,et al.Biochem. Biophys. Res. Commun. 232:449-453(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of UGT8 expression in mouse heart (A), mouse liver (B), rat heart (C) whole cell lysates. (Predicted band size: 61 kD; Observed band size: 60 kD)



Immunofluorescent analysis of UGT8 staining in HepG2 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'.