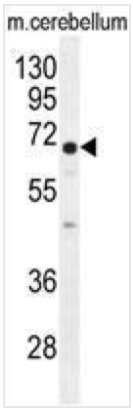
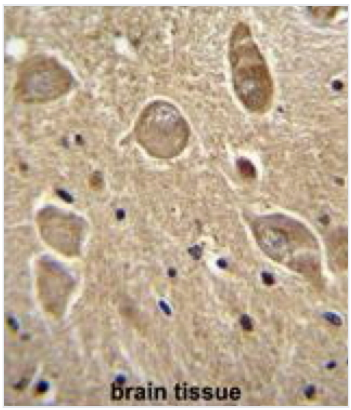
UGT8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UGT8, Polyclonal Antibody
Full Product Name	UGT8, ID (UGT8, CGT, UGT4, 2-hydroxyacylsphingosine 1-beta-galactosyltransferase, Ceramide UDP-galactosyltransferase, Cerebroside synthase, UDP-galactose-ceramide galactosyltransferase) (AP)
Product Gene Name	anti-UGT8 antibody
Product Synonym Names	UGT8; CGT; UGT4; 2-hydroxyacylsphingosine 1-beta-galactosyltransferase; Ceramide UDP-galactosyltransferase; Cerebroside synthase; UDP-galactose-ceramide galactosyltransferase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human UGT8. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	61,438 Da
OMIM	601291
3D Structure	ModBase 3D Structure for Q16880
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 366-393 in the central region of human UGT8., UniProt Accession #Q16880. Species sequence homology: rat
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-UGT8 antibody	Antibodies; Enzymes; Glycosyltransferase
Applications Tested/Suitable for anti-UGT8 antibody	Immunohistochemistry (IHC) Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-UGT8 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-UGT8 antibody	MBS6361234 is an antibody targeting UGT8. Also known as UGT8, ID (UGT8, CGT, UGT4, 2-hydroxyacylsphingosine 1-beta-galactosyltransferase, Ceramide UDP-galactosyltransferase, Cerebroside synthase, UDP-galactose-ceramide galactosyltransferase) (AP). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-UGT8 antibody	1. Dziecedil Giel, P., et al. Br. J. Cancer 103(4):524-531(2010). 2. Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010). 3. Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009). 4. Ruckhaberle, E., et al. J. Cancer Res. Clin. Oncol. 135(8):1005-1013(2009). 5. Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009).
Other Notes	Small volumes of anti-UGT8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-UGT8 antibody
Western Blot analysis in mouse cerebellum tissue lysates (35ug/lane) usingMBS6007636. This demonstrates that MBS6007636 detected the UGT8 protein (arrow).



Immunohistochemistry (IHC) of anti-UGT8 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue using MBS6007636 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6007636 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UGT8. It may not necessarily be applicable to this product.

NCBI GI #	189491660
NCBI GeneID	7368
NCBI Accession #	NP_001121646.1
NCBI Related Accession #	NP_003351.2
UniProt Primary Accession #	Q16880
UniProt Secondary Accession #	O00196; B3KXU7
UniProt Related Accession #	Q16880
GenBank Nucleotide #	NM_001128174.1
NCBI Official Full Name	2-hydroxyacylsphingosine 1-beta-galactosyltransferase
NCBI Official Synonym Full Names	UDP glycosyltransferase 8
NCBI Official Symbol	UGT8
NCBI Official Synonym Symbols	CGT; UGT4
UniProt Protein Name	2-hydroxyacylsphingosine 1-beta-galactosyltransferase
UniProt Synonym Protein Names	Ceramide UDP-galactosyltransferase; Cerebroside synthase; UDP-galactose-ceramide galactosyltransferase
Protein Family	2-hydroxyacylsphingosine 1-beta-galactosyltransferase
UniProt Gene Name	UGT8
UniProt Synonym Gene Names	CGT; UGT4
UniProt Entry Name	CGT_HUMAN
NCBI Protein Information	2-hydroxyacylsphingosine 1-beta-galactosyltransferase; UDP-galactose ceramide galactosyltransferase; UDP-galactose-ceramide galactosyltransferase; ceramide UDP-galactosyltransferase; cerebroside synthase; uridine diphosphate glycosyltransferase 8
NCBI Summary for UGT8	The protein encoded by this gene belongs to the UDP-glycosyltransferase family. It 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 and peripheral nervous systems. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2011]

UniProt Comments for UGT8	UGT8: 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. Belongs to the UDP-glycosyltransferase family. Protein type: Transferase; Lipid Metabolism - sphingolipid; EC 2.4.1.45; Membrane protein, integral Chromosomal Location of Human Ortholog: 4q26 Cellular Component: intracellular membrane-bound organelle; integral to membrane Molecular Function: UDP-galactose:glucosylceramide beta-1,4-galactosyltransferase activity; glucuronosyltransferase activity; 2-hydroxyacylsphingosine 1-beta-galactosyltransferase activity Biological Process: central nervous system development; flavonoid biosynthetic process; galactosylceramide biosynthetic process; axon cargo transport; cytoskeleton organization and biogenesis; neurite morphogenesis; cellular response to hormone stimulus; peripheral nervous system development; paranodal junction assembly
Research Articles on UGT8	**1.** High expression of UGT8 accompanied by accumulation of GalCer in MDA-MB-231 cells is associated with a much higher proliferative index and a lower number of apoptotic cells in comparison to the MDA/LUC-shUGT8 cells.
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