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UGT2B15 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12375C

Product Information

Application	IHC-P, IF, FC, WB, E
Primary Accession	P54855
Other Accession	NP_001067.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31273
Calculated MW	61036
Antigen Region	156-185

Additional Information

Gene ID	7366
Other Names	UDP-glucuronosyltransferase 2B15, UDPGT 2B15, HLUG4, UDP-glucuronosyltransferase 2B8, UDPGT 2B8, UDPGTh-3, UGT2B15, UGT2B8
Target/Specificity	This UGT2B15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-185 amino acids from the Central region of human UGT2B15.
Dilution	IHC-P~~1:100 IF~~1:10~50 FC~~1:10~50 WB~~1:500 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	UGT2B15 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UGT2B15 (HGNC:12546)
Function	UDP-glucuronosyltransferase (UGT) that catalyzes phase II biotransformation reactions in which lipophilic substrates are conjugated with

	glucuronic acid to increase the metabolite's water solubility, thereby facilitating excretion into either the urine or bile (PubMed:16595710, PubMed:18719240, PubMed:23288867, PubMed:7835232, PubMed:9295060). Essential for the elimination and detoxification of drugs, xenobiotics and endogenous compounds (PubMed:7835232). Catalyzes the glucuronidation of endogenous steroid hormones such as androgens (testosterone, androsterone) and estrogens (estradiol, epiestradiol, estriol, catechol estrogens) (PubMed:16595710, PubMed:18719240, PubMed:23288867, PubMed:7835232, PubMed:9295060). Displays glucuronidation activity toward several classes of xenobiotic substrates, including phenolic compounds (eugenol, 4-nitrophenol, 4-hydroxybiphenyl) and phenylpropanoids (naringenin, coumarins) (PubMed:7835232). Catalyzes the glucuronidation of monoterpenoid alcohols such as borneol, menthol and isomenthol, a class of natural compounds used in essential oils (By similarity).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein
Tissue Location	Expressed in many tissues. Present in liver, prostate and testis.

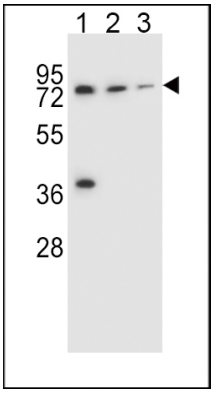
Background

The UGTs are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. UGT2B8 demonstrates reactivity with estriol. See UGT2B4 (MIM 600067).

References

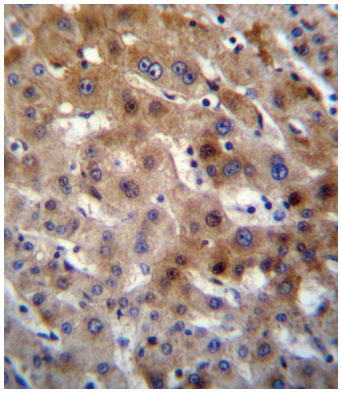
Yong, M., et al. Cancer Epidemiol. Biomarkers Prev. 19(2):537-546(2010)
Sun, C., et al. Hum. Mutat. 31(1):99-107(2010)
Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)
He, X., et al. Br J Clin Pharmacol 68(5):721-730(2009)
Holmes, M.V., et al. PLoS ONE 4 (12), E7960 (2009) :

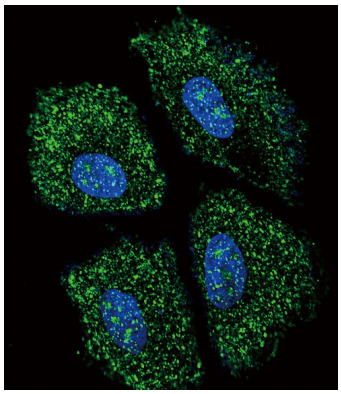
Images



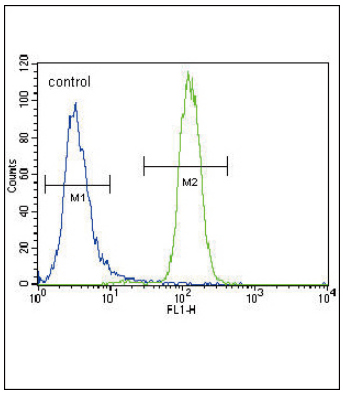
UGT2B15 Antibody (Center) (Cat. #AP12375c) western blot analysis in NCI-H460(lane 1),HepG2(lane 2),ZR-75-1(lane 3) cell line lysates (35ug/lane).This demonstrates the UGT2B15 antibody detected the UGT2B15 protein (arrow).

UGT2B15 Antibody (Center) (Cat. #AP12375c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of UGT2B15 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.





Confocal immunofluorescent analysis of UGT2B15 Antibody (Center) (Cat#AP12375c) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



UGT2B15 Antibody (Center) (Cat. #AP12375c) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.