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UGT2B4 Antibody(N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19747a

Product Information

Application	WB, E
Primary Accession	P06133
Other Accession	NP_066962.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41766
Calculated MW	60513
Antigen Region	68-96

Additional Information

Gene ID	7363
Other Names	UDP-glucuronosyltransferase 2B4, UDPGT 2B4, HLUG25, Hyodeoxycholic acid-specific UDPGT, UDPGTh-1, UGT2B4, UGT2B11
Target/Specificity	This UGT2B4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 68-96 amino acids from the N-terminal region of human UGT2B4.
Dilution	WB~~1:1000 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	UGT2B4 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UGT2B4 (HGNC:12553)
Synonyms	UGT2B11
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:18719240, PubMed:23288867). Essential for the elimination and detoxification of drugs, xenobiotics and endogenous compounds (PubMed:18719240, PubMed:23288867). Catalyzes the glucuronidation of the endogenous estrogen hormones such as estradiol and estriol (PubMed:18719240, PubMed:23288867).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein

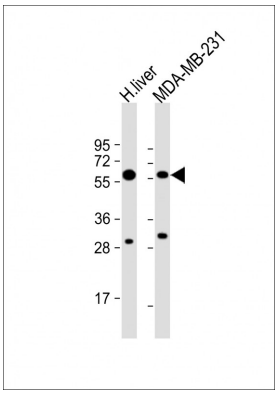
Background

UDPGTs are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This isozyme is active on polyhydroxylated estrogens (such as estriol, 4-hydroxyestrone and 2-hydroxyestriol) and xenobiotics (such as 4-methylumbelliferone, 1-naphthol, 4-nitrophenol, 2-aminophenol, 4-hydroxybiphenyl and menthol). It is capable of 6 alpha-hydroxyglucuronidation of hyodeoxycholic acid.

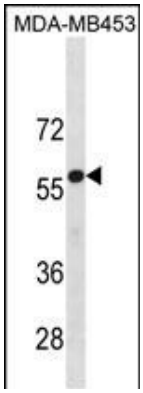
References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Levesque, E., et al. Pharmacogenet. Genomics 20(3):195-210(2010)
Yong, M., et al. Cancer Epidemiol. Biomarkers Prev. 19(2):537-546(2010)
Li, J., et al. Breast Cancer Res. 12 (2), R19 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)

Images



All lanes : Anti-UGT2B4 Antibody (N-term) at 1:8000 dilution Lane 1: human liver lysate Lane 2: MDA-MB-231 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.



UGT2B4 Antibody (N-term) (Cat. #AP19747a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the UGT2B4 antibody detected the UGT2B4 protein (arrow).