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UGT2B15 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12375C

Specification

UGT2B15 Antibody (Center) - Product Information

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

UGT2B15 Antibody (Center) - 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
WB~~1:500
FC~~1:10~50
IF~~1:10~50
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.

UGT2B15 Antibody (Center) - Protein Information

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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

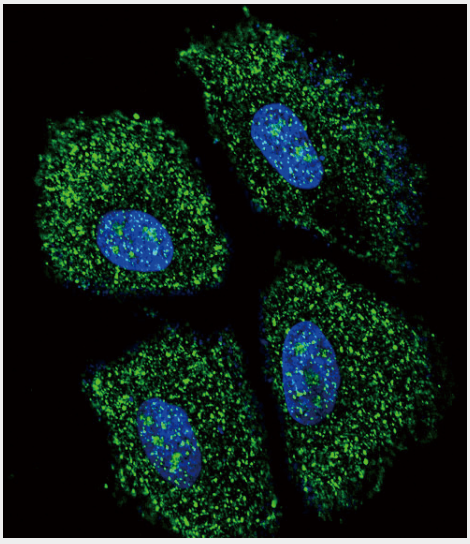
Tissue Location
Expressed in many tissues. Present in liver, prostate and testis.

UGT2B15 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UGT2B15 Antibody (Center) - Images



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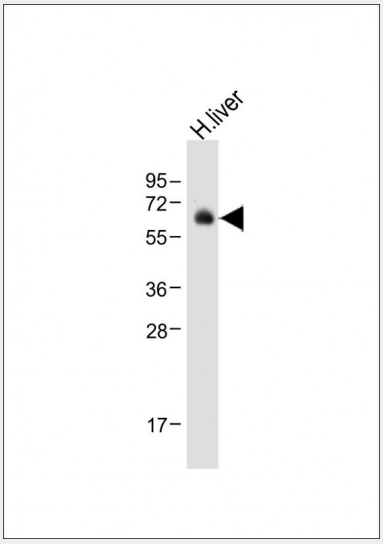
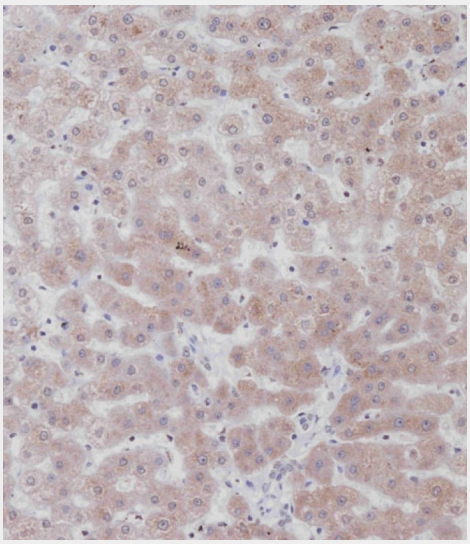
Confocal immunofluorescent analysis of UGT2B15 Antibody (Center) (Cat#AP12375c) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



Anti-UGT2B15 Antibody (Center) at 1:500 dilution + Human liver tissue 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.



Immunohistochemical analysis of AP12375C on paraffin-embedded Human liver tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

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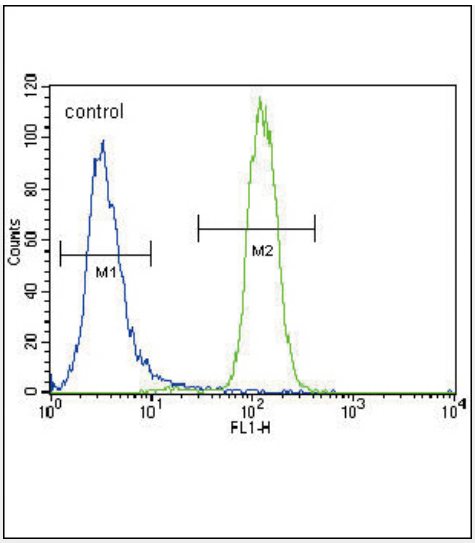

UGT2B15 Antibody (Center) (Cat. #AP12375c) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

UGT2B15 Antibody (Center) - 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).

UGT2B15 Antibody (Center) - 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) :