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UGT1A4 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12720

Product Information

Application	WB
Primary Accession	P22310
Other Accession	NM_007120, NP_009051
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60025

Additional Information

Gene ID	54657
Alias Symbol	HUG-BR2, UDPGT, UGT1D, UGT-1D, UGT1.4, UGT1-04, UDPGT 1-4
Other Names	UDP-glucuronosyltransferase 1-4, UDPGT 1-4, UGT1*4, UGT1-04, UGT1.4, 2.4.1.17, Bilirubin-specific UDPGT isozyme 2, hUG-BR2, UDP-glucuronosyltransferase 1-D, UGT-1D, UGT1D, UDP-glucuronosyltransferase 1A4, UGT1A4, GNT1, UGT1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-UGT1A4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	UGT1A4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

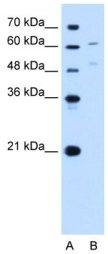
Name	UGT1A4 (HGNC:12536)
Synonyms	GNT1, UGT1
Function	[Isoform 1]: UDP-glucuronosyltransferase (UGT) that catalyzes phase II biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase the metabolite's water solubility, thereby facilitating excretion into either the urine or bile (PubMed:18177842, PubMed:24641623, PubMed:15231852). Essential for the elimination and detoxification of drugs, xenobiotics and endogenous compounds

	(PubMed:18177842, PubMed:20133892). Involved in the glucuronidation of calcidiol, which is the major circulating form of vitamin D3 essential for the regulation of calcium and phosphate homeostasis (PubMed:24641623). Also glucuronidates the biologically active form of vitamin D3, calcitriol, probably leading to its biliary transport and intestinal reabsorption (PubMed:18177842). Involved in the glucuronidation of arachidonic acid (AA) and AA-derived eicosanoids including 15-HETE, 20-HETE and PGB1 (PubMed:15231852). Catalyzes N- glucuronidation of tobacco alkaloids, tobacco-specific nitrosamines and tricyclic antidepressants (PubMed:17576790, PubMed:18238858, PubMed:20133892, PubMed:28803208).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein
Tissue Location	[Isoform 1]: Expressed in liver (PubMed:1339448, PubMed:18004212). Expressed in kidney, colon and small intestine (PubMed:18004212). Not expressed in esophagus (PubMed:18004212). Not expressed in skin (PubMed:1339448).

References

Kaku,T.,(2004)Biochem.Pharmacol.67(11),2093-2102ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images



WB Suggested Anti-UGT1A4 Antibody Titration: 0.2-1 µg/ml
Positive Control: HepG2 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.