

Rabbit anti-Human UGT1A1 Polyclonal Antibody | anti-UGT1A1 antibody

UGT1A1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284816	Rabbit	Human	Western Blot, Immunohistochemistry, ELISA, Immunofluorescence

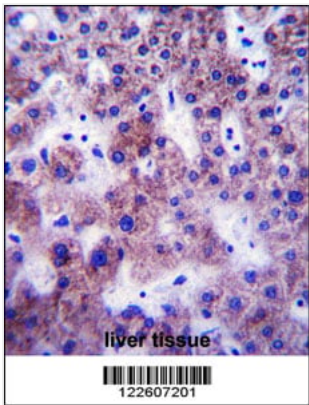
PRODUCT SYNONYMS

UGT1A1; Polyclonal Antibody; UGT1A1 Antibody (N-term); UDP-glucuronosyltransferase 1-1; UDPGT 1-1; UGT1*1; UGT1-01; UGT11; Bilirubin-specific UDPGT isozyme 1; hUG-BR1; UDP-glucuronosyltransferase 1-A; UGT-1A; UGT1A; UDP-glucuronosyltransferase 1A1; GNT1; UGT1; anti-UGT1A1 antibody

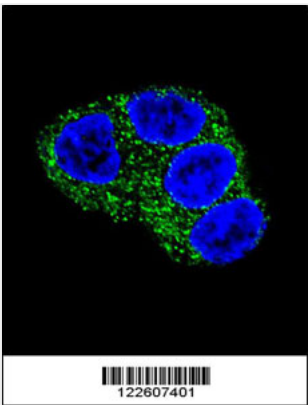
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This UGT1A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-90 amino acids from the N-terminal region of human UGT1A1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	65-90
Sequence Length	444
Applicable Applications for anti-UGT1A1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA, IF (Immunofluorescence)
Function	UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This isoform glucuronidates bilirubin IX- alpha to form both the IX-alpha-C8 and IX-alpha-C12 monoconjugates and diconjugate. Is also able to catalyze the glucuronidation of 17beta-estradiol, 17alpha-ethinylestradiol, 1-hydroxypyrene, 4- methylumbelliferone, 1-naphthol, paranitrophenol, scopoletin, and umbelliferone. Isoform 2 lacks transferase activity but acts as a negative regulator of isoform 1.
Cellular Location	Isoform 1: Microsome. Endoplasmic reticulum membrane; Single-pass membrane protein
Tissue Location	Isoform 1 and isoform 2 are expressed in liver, colon and small intestine. Isoform 2 but not isoform 1 is expressed in kidney. Isoform 1 and isoform 2 are not expressed in esophagus. Not expressed in skin.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

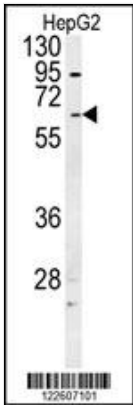
IMAGES



IHC (Immunohistochemisry)
UGT1A1 Antibody (N-term) 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 UGT1A1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of UGT1A1 Antibody (N-term) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



WB (Western Blot)
UGT1A1 Antibody (N-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the UGT1A1 antibody detected the UGT1A1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-UGT1A1 antibody	This gene encodes a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remaining nine 5' exons may be spliced to the four common exons, resulting in nine proteins with different N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is regulated by its own promoter. The preferred substrate of this enzyme is bilirubin,although it also has moderate activity with simple phenols, flavones, and C18 steroids. Mutations in this gene result in Crigler-Najjar syndromes types I and II and in Gilbert syndrome.
Product Categories/Family for anti-UGT1A1 antibody	Metabolism; Signal Transduction
References	Italia, K.Y., et al. Clin. Biochem. 43 (16-17), 1329-1332 (2010) : Justenhoven, C., et al. Breast Cancer Res. Treat. 124(1):289-292(2010) Hu, M., et al. Pharmacogenet. Genomics 20(10):634-637(2010) Sai, K., et al. Br J Clin Pharmacol 70(2):222-233(2010) Kilic, I., et al. Int J Clin Pharmacol Ther 48(8):504-508(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8850236
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NCBI GeneID	54658
NCBI Accession #	NP_000454.1
NCBI GenBank Nucleotide #	NM_000463.2
UniProt Accession #	P22309; A6NJC3; B8K286
Molecular Weight	59591
NCBI Official Full Name	UDP-glucuronosyltransferase 1-1
NCBI Official Synonym Full Names	UDP glucuronosyltransferase 1 family, polypeptide A1
NCBI Official Symbol	UGT1A1
NCBI Official Synonym Symbols	GNT1; UGT1; UDPGT; UGT1A; HUG-BR1; BILIQTL1; UDPGT 1-1
NCBI Protein Information	UDP-glucuronosyltransferase 1-1
UniProt Protein Name	UDP-glucuronosyltransferase 1-1
UniProt Gene Name	UGT1A1
UniProt Synonym Gene Names	GNT1; UGT1; UDPGT 1-1; UGT1*1; UGT1-01; UGT1.1; hUG-BR1; UGT-1A; UGT1A
UniProt Entry Name	UD11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ugt1a1-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/284816>