antibodies

Datasheet for ABIN5693290 anti-UGT1A1 antibody (AA 316-533)

5 Images



Overview

Quantity:	100 µg
Target:	UGT1A1
Binding Specificity:	AA 316-533
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human UGT1A1 recombinant protein (Position: E316-H533).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for UGT1A1 detection. Tested with WB, IHC-P, Direct ELISA in Human,Mouse,Rat.

Target Details

Target:	UGT1A1
Alternative Name:	UGT1A1 (UGT1A1 Products)
Background:	Synonyms: UDP-glucuronosyltransferase 1-1, UDPGT 1-1, UGT1*1, UGT1-01, UGT1.1, Bilirubin- specific UDPGT isozyme 1, hUG-BR1, UDP-glucuronosyltransferase 1-A, UGT-1A, UGT1A, UDP-
	glucuronosyltransferase 1A1, UGT1A1, GNT1, UGT1

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Restrictions:

Handling

Reconstitution:

Preservative:

Format:

Buffer:

	Tissue Specificity: 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.
	Background: UDP-glucuronosyltransferase 1-1 also known as UGT-1A is an enzyme that in
	humans is encoded by the UGT1A1 gene. 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.
UniProt:	P22309
Pathways:	Steroid Hormone Biosynthesis, Regulation of Lipid Metabolism by PPARalpha
Application Details	
Application Notes:	Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG
	(ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit

(SV0002-1) for IHC(P).

Direct ELISA, 0.1-0.5 µg/mL

For Research Use only

Lyophilized

Sodium azide

Application Details: Western blot, 0.1-0.5 μ g/mL

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL

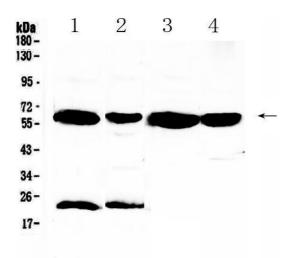
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Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.

Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

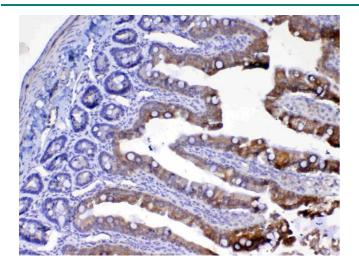
Images



Western Blotting

Image 1. Western blot analysis of UGT1A1 using anti-UGT1A1 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: mouse liver tissue lysates, Lane 4: mouse kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-UGT1A1 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for UGT1A1 at approximately 59KD. The expected band size for UGT1A1 is at 59KD.

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Immunohistochemistry

Image 2. IHC analysis of UGT1A1 using anti-UGT1A1 antibody . UGT1A1 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-UGT1A1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Immunohistochemistry

Image 3. IHC analysis of UGT1A1 using anti-UGT1A1 antibody . UGT1A1 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-UGT1A1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Please check the product details page for more images. Overall 5 images are available for ABIN5693290.

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