Datasheet for ABIN7601003

anti-UGT1A6 antibody (AA 27-251)

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Overview

Quantity:	100 µg
Target:	UGT1A6
Binding Specificity:	AA 27-251
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UGT1A6 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-UGT1A6 Antibody Picoband®
Immunogen:	E.coli-derived human UGT1A6 recombinant protein (Position: D27-S251).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-UGT1A6 Antibody Picoband® (ABIN7601003). Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	UGT1A6
Alternative Name:	UGT1A6 (UGT1A6 Products)
Background:	Synonyms: "UDP-glucuronosyltransferase 1-5, UDPGT 1-5, UGT1*5, UGT1-05, UGT1.5, UDP-glucuronosyltransferase 1-E, UGT-1E, UGT1E, UDP-glucuronosyltransferase 1A5, UGT1A5, GNT1, UGT1 Tissue Specificity: Expressed in skin. Isoforms 1 and 3 are expressed in kidney and liver. Isoform 1 but not isoform 2 is expressed in colon, esophagus and small intestine. Background: UDP-glucuronosyltransferase 1-6 is an enzyme that in humans is encoded by the UGT1A6 gene. It is mapped to 2q37.1. 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 enzyme encoded by this gene is active on phenolic and planar compounds. Alternative splicing in the unique 5' end of this gene results in two transcript variants.
Molecular Weight:	55-61 kDa
Gene ID:	54578
UniProt:	P19224
Pathways:	Steroid Hormone Biosynthesis, Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes:	"Western blot, 0.25-0.5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - "1. Mackenzie PI, Owens IS, Burchell B, Bock KW, Bairoch A, Bélanger A, Fournel-Gigleux S, Green M, Hum DW, Iyanagi T, Lancet D, Louisot P, Magdalou J, Chowdhury JR, Ritter JK, Schachter H, Tephly TR, Tipton KF, Nebert DW (August 1997). "The UDP glycosyltransferase gene superfamily: recommended nomenclature update based on evolutionary divergence". Pharmacogenetics. 7 (4): 255-69. 2. Ritter JK, Chen F, Sheen YY, Tran HM, Kimura S, Yeatman MT, Owens IS (February 1992). "A novel complex locus UGT1 encodes human bilirubin, phenol,

Application Details

	and other UDP-glucuronosyltransferase isozymes with identical carboxyl termini". The Journal of Biological Chemistry. 267 (5): 3257-61. 3. Shrestha B, Reed JM, Starks PT, Kaufman GE, Goldstone JV, Roelke ME, O'Brien SJ, Koepfli KP, Frank LG, Court MH (2011). Zanger U (ed.). "Evolution of a major drug metabolizing enzyme defect in the domestic cat and other felidae: phylogenetic timing and the role of hypercarnivory". PLoS One. 6 (3): e18046.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
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:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.