

Anti-UGT1A1 Antibody

01/21

CATALOG NO.: A2279-100 (100 µl)

BACKGROUND DESCRIPTION: 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.

ALTERNATE NAMES: GNT1, UGT1, UDPGT, UGT1A, HUG-BR1, BILIQTL1, UDPGT 1-1, UGT1A1, EC 2.4.1.17, UGT1-01, UGT1*1, UGT1.1, UGT-1A

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: Recombinant fusion protein targeting a sequence around aa 1-200 of human UGT1A1 protein

MOLECULAR WEIGHT: 58 kDa

PURIFICATION: Affinity purified

FORM: Liquid

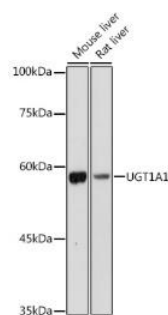
FORMULATION: In PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH 7.3

SPECIES REACTIVITY: Mouse, Rat

STORAGE CONDITIONS: Store at -20°C. Avoid freeze/thaw cycles

APPLICATIONS AND USAGE: WB (1:500 - 1:2000), IF (1:50 - 1:200)

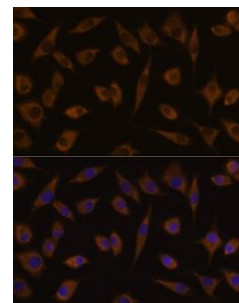
This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of mouse liver and rat liver whole cell lysates was performed using Anti-UGT1A1 antibody. 25 µg lysates were loaded per lane. 3% nonfat dry milk in TBST was used as blocking buffer. Primary antibody dilution used was 1:1000. HRP Goat Anti-Rabbit IgG (H+L) was used as secondary antibody at 1:10000 dilution. Detection was performed using ECL Basic Kit. Exposure time was 180s.

RELATED PRODUCTS:

Heme Oxygenase-1 Antibody (3391)
 SLC Antibody (5534)
 Anti-ER-alpha Antibody (A2016)
 Catechins P450 Antibody (3084R)



Immunofluorescence analysis of L929 cells was performed using Anti-UGT1A1 antibody at a dilution of 1:100. Nuclear stain used was DAPI. Magnification: 40x