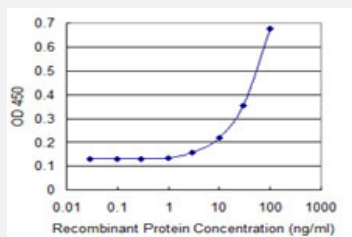


UGT1A3 monoclonal antibody (M02), clone 1C10

Catalog # H00054659-M02

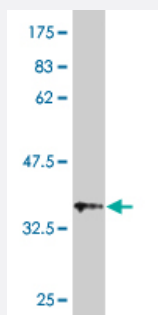
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged UGT1A3 is 1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant UGT1A3.
Immunogen	UGT1A3 (NP_061966, 30 a.a. ~ 129 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KVLVVPIDGSHWLSMREVLRELHARGHQAVVLTPEVNMHIKEENFFTLTTYAISWTQDEFDRHVL GHTQLYFETEHFLKKFFRSMAMLNMSLVYHRSCV
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (75); Rat (77)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged UGT1A3 is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — UGT1A3

Entrez GeneID	54659
GeneBank Accession#	NM_019093
Protein Accession#	NP_061966
Gene Name	UGT1A3
Gene Alias	UGT1C
Gene Description	UDP glucuronosyltransferase 1 family, polypeptide A3
Omim ID	606428
Gene Ontology	Hyperlink

Gene Summary

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. Substrates of this enzyme include estrone, 2-hydroxyestrone, and metabolites of benzo alpha-pyrene. [provided by RefSeq]

Other Designations

OTTHUMP00000065193|UDP glucuronosyltransferase 1A3|UDP glycosyltransferase 1 family, polypeptide A3|UDP-glucuronosyltransferase

Publication Reference

- [A Gilbert Syndrome-Associated Haplotype Protects Against Fatty Liver Disease in Humanized Transgenic Mice.](#)

Steffen Landerer, Sandra Kalthoff, Stefan Paulusch, Christian P Strassburg.

Scientific Reports 2020 May; 10(1):8689.

Application: WB-Ti, Mouse, Mouse livers

- [Combination of hesperetin and platinum enhances anticancer effect on lung adenocarcinoma.](#)

Wang Y, Liu S, Dong W, Qu X, Huang C, Yan T, Du J.

Biomedicine & Pharmacotherapy 2019 May; 113:108779.

Application: WB, Human, A549 cells, NSCLC tissues

- [Coffee induces expression of glucuronosyltransferases via the aryl hydrocarbon receptor and Nrf2 in liver and stomach.](#)

Kalthoff S, Ehmer U, Freiberg N, Manns MP, Strassburg CP.

Gastroenterology 2010 Nov; 139(5):1699.

Application: WB, Human, KYSE70 cells

Pathway

- [Androgen and estrogen metabolism](#)
- [Ascorbate and aldarate metabolism](#)
- [Drug metabolism - cytochrome P450](#)
- [Drug metabolism - other enzymes](#)

- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Pentose and glucuronate interconversions](#)
- [Porphyrin and chlorophyll metabolism](#)
- [Retinol metabolism](#)
- [Starch and sucrose metabolism](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Diabetes Mellitus](#)
- [Drug-Induced Liver Injury](#)
- [Duodenal Neoplasms](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)
- [Hearing Loss](#)
- [Hyperbilirubinemia](#)
- [Liver Neoplasms](#)