

Rabbit anti-Mouse, Rat Ugt1a1 Polyclonal Antibody | anti-UGT1A1 antibody

Anti-Ugt1a1 Antibody Picoband

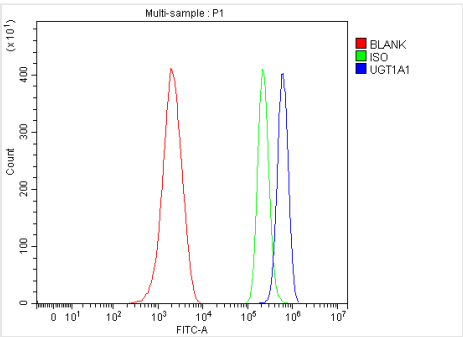
CATALOG # AAA126183	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

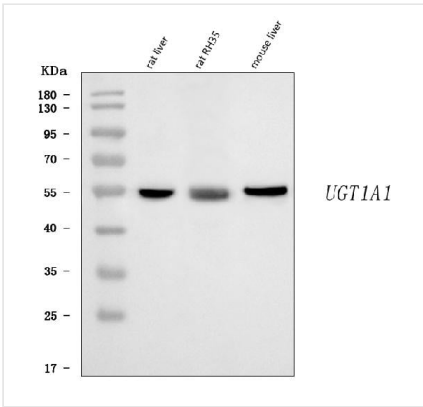
Ugt1a1; Polyclonal Antibody; Anti-Ugt1a1 Antibody Picoband; anti-UGT1A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CES1
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-UGT1A1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Assay Type	Sandwich
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	0.78 ng/ml - 50 ng/ml
Sensitivity	<0.1 ng/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of ANA-1 cells using anti-Ugt1a1 antibody (AAA126183).Overlay histogram showing ANA-1 cells stained with AAA126183 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Ugt1a1 Antibody (AAA126183, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Ugt1a1 using anti-Ugt1a1 antibody (AAA126183).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 30 ug of sample under reducing conditions.Lane 1: rat liver tissue lysates,Lane 2: rat RH35 whole cell lysates,Lane 3: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 (#AAA126183) at 0.5 ug/mL overnight at 4 degree 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Ugt1a1 at approximately 55 kDa. The expected band size for Ugt1a1 is at 60 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-UGT1A1 antibody	Background: Liver carboxylesterase 1 also known as carboxylesterase 1 (CES1, hCE-1 or CES1A1) is an enzyme that in humans is encoded by the CES1 gene. This gene is mapped to 16q12.2. It encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This enzyme is the major liver enzyme and functions in liver drug clearance. Mutations of this gene cause carboxylesterase 1 deficiency. Three transcript variants encoding three different isoforms have been found for this gene. Principle of the Assay: The Quick Picokine™ Human CES1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CES1 in cell culture supernatants, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human CES1 with immunogen: Expression system for standard: NS0; Immunogen sequence: G18-L567. To measure Human CES1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human CES1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CES1 in the sample.
Product Categories/Family for anti-UGT1A1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	145699099
NCBI GeneID	394436

NCBI Accession #	NP_964007.2
NCBI GenBank Nucleotide #	NM_201645.2
UniProt Accession #	Q63886 ; Q561M6 ; Q6XL50
Molecular Weight	60,047 Da
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; UgtBr1; UGT1A01; Udpgt-1a; UDPGT 1-1
NCBI Protein Information	UDP-glucuronosyltransferase 1-1; UDPGT; UGT1*1; UGT1-01; UDP-glucuronosyltransferase 1A1; UDP-glucuronosyltransferase 1 family, member 1; UDP-glucuronosyltransferase 1 family, polypeptide A1
UniProt Protein Name	UDP-glucuronosyltransferase 1-1
UniProt Gene Name	Ugt1a1
UniProt Synonym Gene Names	Ugt1; UDPGT 1-1; UGT1*1; UGT1-01; UGT1.1
UniProt Entry Name	UD11_MOUSE

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-flow-cytometry-western-blot-elisa/126183>