

Human ATP Binding Cassette Transporter B4 (ABCB4) ELISA Kit | ABCB4 elisa kit

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CATALOG #
AAA190184

REACTIVITY
Human

PRODUCT SYNONYMS

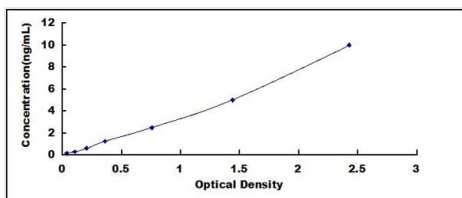
ATP Binding Cassette Transporter B4 (ABCB4); Human ATP Binding Cassette Transporter B4 (ABCB4) ELISA Kit; ABCB4 ELISA kit (Human); ATP Binding Cassette Transporter B4; ABC-B4; ABC21; MDR2/3; MDR3; PFIC-3; PGY3; GBD1; Multidrug resistance protein 3; P-glycoprotein 3; ABCB4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP Binding Cassette Transporter B4 (ABCB4). No significant cross-reactivity or interference between ATP Binding Cassette Transporter B4 (ABCB4) and analogues was observed. Reactive with Human ABCB4/ATP Binding Cassette Transporter B4
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Sample Size	100uL
Detection Method	Colormetric
Featured Series	SE kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ATP Binding Cassette Transporter B4 (ABCB4) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ATP Binding Cassette Transporter B4 (ABCB4) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (regular version)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to ATP Binding Cassette Transporter B4 (ABCB4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to ATP Binding Cassette Transporter B4 (ABCB4). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ATP Binding Cassette Transporter B4 (ABCB4), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of ATP Binding Cassette Transporter B4 (ABCB4) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Signal transduction
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	126302568
NCBI GeneID	5244
UniProt Accession #	P21439; Q14813; A0A2V7; A4D1D3; A4D1D4; A4D1D5; D6W5P3; D6W5P4
NCBI Official Full Name	Multidrug resistance protein 3
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family B (MDR/TAP), member 4
NCBI Official Symbol	ABCB4
NCBI Official Synonym Symbols	GBD1; ICP3; MDR2; MDR3; PGY3; ABC21; MDR2/3; PFIC-3
NCBI Protein Information	multidrug resistance protein 3; P-glycoprotein 3; multiple drug resistance 3; ATP-binding cassette sub-family B member 4; P glycoprotein 3/multiple drug resistance 3; P-glycoprotein-3/multiple drug resistance-3
UniProt Protein Name	Multidrug resistance protein 3
UniProt Gene Name	ABCB4
UniProt Synonym Gene Names	MDR3; PGY3
UniProt Entry Name	MDR3_HUMAN

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.