

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

Mouse ATP Binding Cassette Transporter B4 (ABCB4)(Sandwich ELISA) ELISA Kit

CATALOG #
AAA152455

REACTIVITY
Mouse

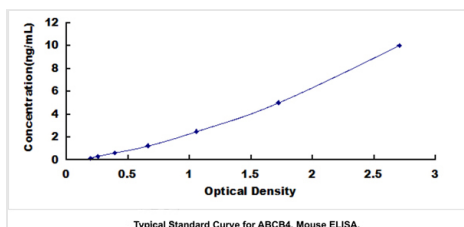
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of ABCB4. No significant cross-reactivity or interference between ABCB4 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.058ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ABCB4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ABCB4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year 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)

ADDITIONAL INFORMATION

Related Product Information for ABCB4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ABCB4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 ABCB4 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ABCB4 in mouse serum, plasma, tissue homogenates, cell lysates and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	161086924
NCBI GeneID	18670
NCBI Accession #	NP_032856.2
NCBI GenBank Nucleotide #	NM_008830.2
UniProt Accession #	P21440; Q6LCL9; B9EK77
Molecular Weight	140,377 Da
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	Mdr2; Pgy2; Pgy-2; mdr-2
NCBI Protein Information	multidrug resistance protein 3; P glycoprotein 2; P-glycoprotein 3; multidrug resistance protein 2; ATP-binding cassette sub-family B member 4
UniProt Protein Name	Multidrug resistance protein 3
UniProt Gene Name	Abcb4
UniProt Synonym Gene Names	Mdr2; Pgy-2; Pgy2
UniProt Entry Name	MDR3_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.