

Human Permeability Glycoprotein (P-gp) ELISA Kit | P-gp elisa kit

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CATALOG #
AAA331045

REACTIVITY
Human

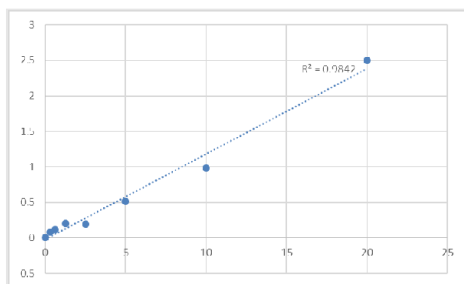
PRODUCT SYNONYMS

Permeability Glycoprotein (P-gp); Human Permeability Glycoprotein (P-gp) ELISA Kit; ABCB1; ABC20; CD243; CLCS; GP170; MDR1; MGC163296; P-GP; PGY1; ATP-binding cassette; subfamily B; member 1; P-glycoprotein 1; colchicin sensitivity; doxorubicin resistance; multidrug resistance protein 1; P-gp elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Permeability glycoprotein (P-gp) ELISA Kit has high sensitivity and excellent specificity for detection of Human ABCB1. No significant cross-reactivity or interference between Human ABCB1 and analogues was observed.
Sequence Length	1280
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Permeability glycoprotein (P-gp) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for P-gp elisa kit	Description: This Human Permeability glycoprotein (P-gp) ELISA Kit employs a two-site sandwich ELISA to quantitate ABCB1 in samples. An antibody specific for ABCB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ABCB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ABCB1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ABCB1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: P-glycoprotein is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42741659
NCBI GeneID	5243
NCBI Accession #	NP_000918.2
NCBI GenBank Nucleotide #	NP_000918.2
UniProt Accession #	P08183
NCBI Official Full Name	multidrug resistance protein 1 isoform 2
NCBI Official Synonym Full Names	ATP binding cassette subfamily B member 1
NCBI Official Symbol	ABCB1
NCBI Official Synonym Symbols	CLCS; MDR1; P-GP; PGY1; ABC20; CD243; GP170
NCBI Protein Information	multidrug resistance protein 1
UniProt Protein Name	Multidrug resistance protein 1
UniProt Gene Name	ABCB1
UniProt Synonym Gene Names	MDR1; PGY1
UniProt Entry Name	MDR1_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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/permeability-glycoprotein-p-gp/331045>