

Human ATP-Binding Cassette Transporter G2 (ABCG2) ELISA Kit | ABCG2 elisa kit

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CATALOG #
AAA331060

REACTIVITY
Human

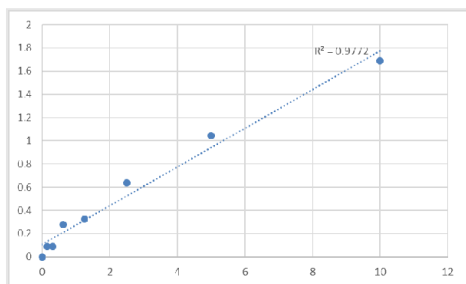
PRODUCT SYNONYMS

ATP-Binding Cassette Transporter G2 (ABCG2); Human ATP-Binding Cassette Transporter G2 (ABCG2) ELISA Kit; ABCG2; ABC15; ABCP; BCRP; BCRP1; BMDP; CD338; CDw338; EST157481; MGC102821; MRX; MXR; MXR1; ABC transporter; ATP-binding cassette transporter G2; ATP-binding cassette; sub-family G; member 2; breast cancer re; ABCG2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human ATP-binding cassette transporter G2 (ABCG2) ELISA Kit has high sensitivity and excellent specificity for detection of Human ABCG2. No significant cross-reactivity or interference between Human ABCG2 and analogues was observed.
Sequence Length	655
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 ATP-binding cassette transporter G2 (ABCG2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ABCG2 elisa kit	Description: This Human ATP-binding cassette transporter G2 (ABCG2) ELISA Kit employs a two-site sandwich ELISA to quantitate ABCG2 in samples. An antibody specific for ABCG2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ABCG2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ABCG2 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 ABCG2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: ATP-binding cassette, sub-family G (WHITE), member 2 is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	67462103
NCBI GeneID	9429
UniProt Accession #	Q9UNQ0
NCBI Official Full Name	ATP-binding cassette sub-family G member 2
NCBI Official Synonym Full Names	ATP binding cassette subfamily G member 2 (Junior blood group)
NCBI Official Symbol	ABCG2
NCBI Official Synonym Symbols	MRX; MXR; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CD338; GOUT1; MXR-1; CDw338; UAQTL1; EST157481
NCBI Protein Information	ATP-binding cassette sub-family G member 2
UniProt Protein Name	ATP-binding cassette sub-family G member 2
UniProt Gene Name	ABCG2
UniProt Synonym Gene Names	ABCP; BCRP; BCRP1; MXR
UniProt Entry Name	ABCG2_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.