



Human ATP-binding cassette transporter G2,ABCG2 ELISA Kit

Product Code	CSB-E11251h
Abbreviation	ABCG2
Protein Biological Process 1	Transport
Target Name	ATP-binding cassette, sub-family G (WHITE), member 2
Uniprot No.	Q9UNQ0
Alias	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
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Transport
Sample Types	serum, plasma, cell lysates, cell culture supernates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	ABCG2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ABCG2 ELISA Kit was designed for the quantitative measurement of Human ABCG2 protein in serum, plasma, cell lysates, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
Target Details	The membrane-associated protein encoded by this gene 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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human ABCG2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	91
	Range %	82-98
1:2	Average %	97
	Range %	91-103
1:4	Average %	102
	Range %	98-106
1:8	Average %	88
	Range %	84-92

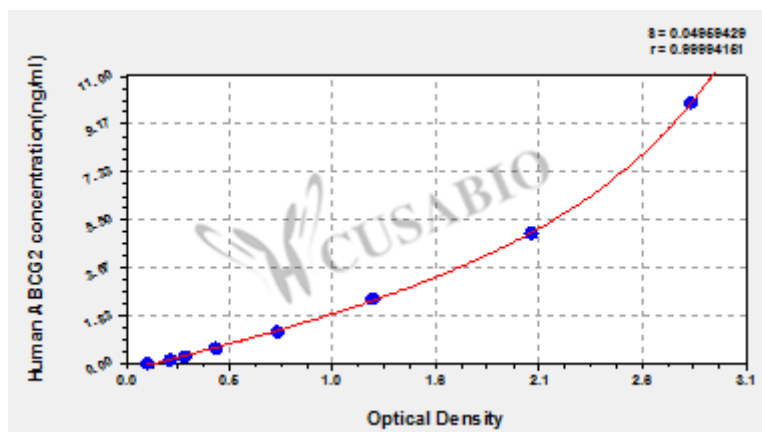
Recovery

The recovery of human ABCG2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	92	87-99
EDTA plasma (n=4)	104	96-106

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
10	2.856	2.799	2.828	2.714
5	1.944	2.111	2.028	1.914
2.5	1.222	1.255	1.239	1.125
1.25	0.774	0.751	0.763	0.649
0.625	0.458	0.462	0.460	0.346
0.312	0.304	0.303	0.304	0.190
0.156	0.225	0.227	0.226	0.112
0	0.113	0.115	0.114	

Msds

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