

Human ATP-Binding Cassette Transporter A1 (ABCA1) ELISA Kit | ABCA1 elisa kit

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CATALOG #
AAA331041

REACTIVITY
Human

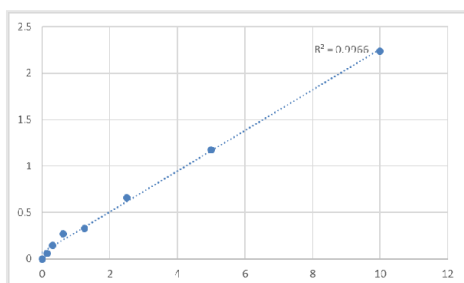
PRODUCT SYNONYMS

ATP-Binding Cassette Transporter A1 (ABCA1); Human ATP-Binding Cassette Transporter A1 (ABCA1) ELISA Kit; ABCA1; ABC-1; ABC1; CERP; FLJ14958; HDLDT1; MGC164864; MGC165011; TGD; ATP binding cassette transporter 1; ATP-binding cassette 1; ATP-binding cassette transporter A1; ATP-binding cassette; sub-family A membe; ABCA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human ATP-binding cassette transporter A1 (ABCA1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ABCA1. No significant cross-reactivity or interference between Human ABCA1 and analogues was observed.
Sequence Length	2261
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 A1 (ABCA1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ABCA1 elisa kit	Description: This Human ATP-binding cassette transporter A1 (ABCA1) ELISA Kit employs a two-site sandwich ELISA to quantitate ABCA1 in samples. An antibody specific for ABCA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ABCA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ABCA1 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 ABCA1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: ABCA1 was discovered as the mutation causing Tangier's Disease by several groups in 1998. Gerd Schmitz's group in Germany and Michael Hayden's group in British Columbia were using standard genetics techniques and DNA from family pedigrees to locate the mutation. Richard Lawn's group at CV Therapeutics in Palo Alto, CA used cDNA microarrays, which were relatively new at the time, to assess gene expression profiles from cell lines created from normal and effected individuals. They showed cell lines from patients with Tangier's disease showed differential regulation of the ABCA1 gene. Subsequent sequencing of the gene identified the mutations. This group received an award from the American Heart Association for their discovery.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21536376
NCBI GeneID	19
NCBI Accession #	NP_005493.2
NCBI GenBank Nucleotide #	NP_005493.2
UniProt Accession #	O95477
NCBI Official Full Name	ATP-binding cassette sub-family A member 1
NCBI Official Synonym Full Names	ATP binding cassette subfamily A member 1
NCBI Official Symbol	ABCA1
NCBI Official Synonym Symbols	TGD; ABC1; CERP; ABC-1; HDLDT1
NCBI Protein Information	ATP-binding cassette sub-family A member 1
UniProt Protein Name	ATP-binding cassette sub-family A member 1
UniProt Gene Name	ABCA1
UniProt Synonym Gene Names	ABC1; CERP; ABC-1
UniProt Entry Name	ABCA1_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/atp-binding-cassette-transporter-a1-abca1/331041>