

Human ATP Binding Cassette Transporter A4 (ABCA4) ELISA Kit | ABCA4 elisa kit

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CATALOG #
AAA136737

REACTIVITY
Human

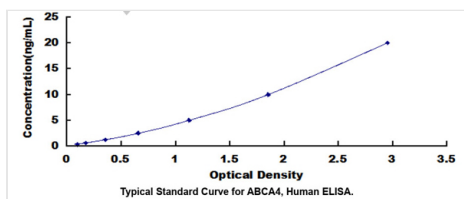
PRODUCT SYNONYMS

ATP Binding Cassette Transporter A4 (ABCA4); Human ATP Binding Cassette Transporter A4 (ABCA4) ELISA Kit; ABC-A4; ABC10; ABCR; ARMD2; CORD3; FFM; RMP; RP19; STGD; STGD1; Stargardt disease protein; Retinal-specific ATP-binding cassette transporter; RIM ABC transporter; ABCA4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ABCA4. No significant cross-reactivity or interference between ABCA4 and analogues was observed.
Sequence Length	947
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.122ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ABCA4 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 ABCA4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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 ABCA4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ABCA4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ABCA4. 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 ABCA4, 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 ABCA4 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 ABCA4 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for ABCA4 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	332644804
Molecular Weight	105,483 Da
NCBI Official Full Name	ATP binding cassette subfamily A4
UniProt Protein Name	ABC transporter A family member 4
UniProt Gene Name	ABCA4
UniProt Synonym Gene Names	ATH3; ABC transporter ABCA.4; AtABCA4
UniProt Entry Name	AB4A_ARATH

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://stage.aaabiotech.com/human-elisa-kits/atp-binding-cassette-transporter-a4-abca4/136737>