

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

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CATALOG #  
**AAA66622**

REACTIVITY  
**Human**

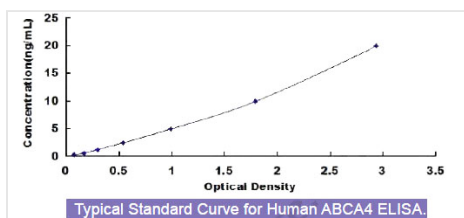
### PRODUCT SYNONYMS

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         | 2273                                                                                                                                                                                                       |
| Samples                 | Human tissue homogenates, cell lysates or other biological fluids                                                                                                                                          |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                      |
| Detection Range         | 0.312-20ng/mL                                                                                                                                                                                              |
| Sensitivity             | <0.112ng/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 | For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ABCA4 elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ABCA4 in human tissue homogenates, cell lysates or other biological fluids.</p> <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ABCA4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation 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.</p> |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 105990541                                              |
| NCBI GeneID                      | 24                                                     |
| NCBI Accession #                 | NP_000341.2                                            |
| NCBI GenBank Nucleotide #        | NM_000350.2                                            |
| UniProt Accession #              | P78363; O15112; O60438; O60915; Q0QD48; Q4LE31         |
| Molecular Weight                 | 255,944 Da                                             |
| NCBI Official Full Name          | retinal-specific ATP-binding cassette transporter      |
| NCBI Official Synonym Full Names | ATP binding cassette subfamily A member 4              |
| NCBI Official Symbol             | ABCA4                                                  |
| NCBI Official Synonym Symbols    | FFM; RMP; ABCR; RP19; STGD; ABC10; ARMD2; CORD3; STGD1 |
| NCBI Protein Information         | retinal-specific ATP-binding cassette transporter      |
| UniProt Protein Name             | Retinal-specific ATP-binding cassette transporter      |
| UniProt Gene Name                | ABCA4                                                  |
| UniProt Synonym Gene Names       | ABCR; RIM protein; RmP                                 |

**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-abca4/66622>