

## Human Retinal-Specific ATP-Binding Cassette Transporter (ABCA4) ELISA Kit | ABCA4 elisa kit

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CATALOG #  
**AAA331044**

REACTIVITY  
**Human**

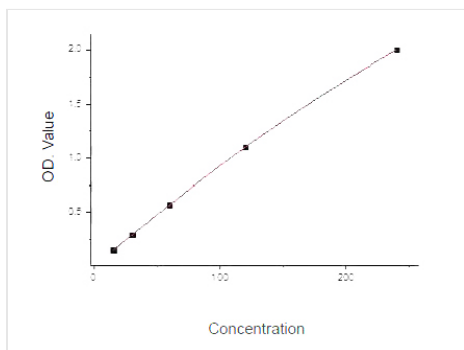
### PRODUCT SYNONYMS

Retinal-Specific ATP-Binding Cassette Transporter (ABCA4); Human Retinal-Specific ATP-Binding Cassette Transporter (ABCA4) ELISA Kit; ABCA4; ABC10; ABCR; ARMD2; CORD3; DKFZp781N1972; FFM; FLJ17534; RMP; RP19; STGD; STGD1; ATP binding cassette transporter; ATP-binding cassette; sub-family A member 4; ATP-binding transporter; retina-specific; ABCA4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                  |
| Specificity             | Human Retinal-specific ATP-binding cassette transporter (ABCA4) ELISA Kit has high sensitivity and excellent specificity for detection of Human ABCA4. No significant cross-reactivity or interference between Human ABCA4 and analogues was observed. |
| Sequence Length         | 2273                                                                                                                                                                                                                                                   |
| Assay Type              | Sandwich                                                                                                                                                                                                                                               |
| Samples                 | Human serum, cell culture supernates and other biological fluids                                                                                                                                                                                       |
| Detection Range         | 15 ng/L - 240 ng/L                                                                                                                                                                                                                                     |
| Sensitivity             | < 1ng/L                                                                                                                                                                                                                                                |
| Intra-assay Precision   | Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.                                                                                                                              |
| Inter-assay Precision   | Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.                                          |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                 |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ABCA4 elisa kit | <p>Background: ABCA4 (ATP Binding Cassette Subfamily A Member 4) is a Protein Coding gene. Diseases associated with ABCA4 include Macular Degeneration, Age-Related, 2 and Cone-Rod Dystrophy 3. Among its related pathways are Diseases of the neuronal system and Regulation of activated PAK-2p34 by proteasome mediated degradation. Gene Ontology (GO) annotations related to this gene include transporter activity and ATPase-coupled transmembrane transporter activity. An important paralog of this gene is ABCA1.</p> <p>Principle of the Assay: Human Retinal-specific ATP-binding cassette transporter (ABCA4) ELISA Kit employs a two-site sandwich ELISA to quantitate ABCA4 in samples. An antibody specific for ABCA4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ABCA4 present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human ABCA4 detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of ABCA4 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 6707663                                                |
| NCBI GeneID                      | 24                                                     |
| UniProt Accession #              | P78363                                                 |
| 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                | <b>ABCA4</b>                                           |
| UniProt Synonym Gene Names       | ABCR; RIM protein; RmP                                 |
| UniProt Entry Name               | ABCA4_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/retinal-specific-atp-binding-cassette-transporter-abca4/331044>