

Human Retinal-specific ATP-binding cassette transporter (ABCA4) ELISA Kit



Catalog No: #EK7612

Orders: order@signalwayantibody.com

Package Size: #EK7612-1 48T #EK7612-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Retinal-specific ATP-binding cassette transporter (ABCA4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	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
Accession No.	P78363
Uniprot	P78363
GeneID	24;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.123 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyABCA4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ABCA4 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 ABCA4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**ABCA4 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intracellular membranes. ABC genes are divided into seven distinct subfamilies. This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. This protein is a retina-specific ABC transporter with N-retinylidene-PE as a substrate. It is expressed exclusively in retina photoreceptor cells, indicating the gene product mediates transport of an essential molecule across the photoreceptor cell

membrane. Mutations in this gene are found in patients diagnosed with Stargardt disease, a form of juvenile-onset macular degeneration.

Note: This product is for in vitro research use only