

# ABCA4 Rabbit pAb

Catalog No.: A25178

## Basic Information

### Observed MW

256kDa

### Calculated MW

256kDa

### Category

Primary antibody

### Applications

ELISA,WB

### Cross-Reactivity

Mouse

## Background

The membrane-associated protein encoded by this gene 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 (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). 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, and the gene product mediates transport of an essential molecule, all-trans-retinal aldehyde (atRAL), across the photoreceptor cell membrane. Mutations in this gene are found in patients diagnosed with Stargardt disease, a form of juvenile-onset macular degeneration. Mutations in this gene are also associated with retinitis pigmentosa-19, cone-rod dystrophy type 3, early-onset severe retinal dystrophy, fundus flavimaculatus, and macular degeneration age-related 2.

## Recommended Dilutions

WB 1:500 - 1:1000

## Immunogen Information

### Gene ID

24

### Swiss Prot

P78363

### Immunogen

Recombinant Protein corresponding to a sequence within amino acids 2070-2273 of human ABCA4(NP\_000341.2).

### Synonyms

FFM; RMP; ABCR; RP19; STGD; ABC10; ARMD2; CORD3; STGD1; ABCA4

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

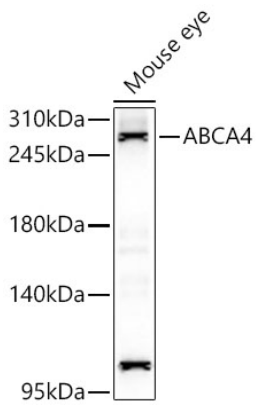
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of lysates from Mouse eye using ABCA4 Rabbit pAb(A25178) at 1:1000 dilution.  
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection:ECL Basic Kit (RM00020).  
Exposure time:60s.