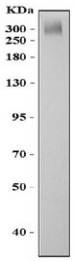
ABCA4 Antibody (R31177)

Catalog No.	Formulation	Size
R31177	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O35600
Applications	Western blot: 0.5-1ug/ml
Limitations	This ABCA4 antibody is available for research use only.



Western blot testing of ABCA4 antibody and mouse eye tissue lysate. Predicted molecular weight ~256 kDa but may be observed at higher molecular weights due to glycosylation.

Description

ATP-Binding Cassette, Subfamily A, Member 4, also known as ABCR, is a protein which in humans is encoded by the ABCA4 gene. It is a member of the ATP-binding cassette transporter gene sub-family A (ABC1) found exclusively in multicellular eukaryotes. Using a whole genome radiation hybrid panel, Allikmets et al.(1997) mapped the gene to 1p21-p13. Allikmets et al.(1997) localized ABCR transcripts exclusively within photoreceptor cells, indicating that ABCR mediates the transport of an essential molecule(or ion) either into or out of photoreceptor cells. Molday et al.(2000) showed by immunofluorescence microscopy and Western blot analysis that ABCR is present in foveal and peripheral cone, as well as rod, photoreceptors. The results suggested that the loss in central vision experienced by patients with

Stargardt macular dystrophy arises directly from ABCR-mediated foveal cone degeneration.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ABCA4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of mouse ABCA4 (TLLIQHHFFLTR) was used as the immunogen for this ABCA4 antibody (100% rat homology).

Storage

After reconstitution, the ABCA4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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