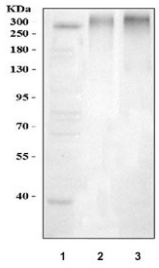
ABCA4 Antibody (R32750)

Catalog No.	Formulation	Size
R32750	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
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	P78363
Applications	Western Blot : 0.5-1ug/ml
Limitations	This ABCA4 antibody is available for research use only.



Western blot testing of 1) human HepG2, 2) rat eye and 3) mouse eye lysate with ABCA4 antibody at 0.5ug/ml. Predicted molecular weight ~256 kDa but may be observed at higher molecular weights due to glycosylation.

Description

ABCA4 (ATP-Binding Cassette, Subfamily A, Member 4), also known as ABCR, is a protein which in humans is encoded by the ABCA4 gene. ABCA4 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, this gene is mapped to 1p21-p13. And this gene is expressed exclusively in retina photoreceptor cells, indicating the gene product mediates transport of an essental molecule across the photoreceptor cell membrane. Additionally, it is 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

Optimal dilution of the ABCA4 antibody should be determined by the researcher.

Immunogen

Amino acids 1890-1927 (FLLTLLVQRHFFLSQWIAEPTKEPIVDEDDDVAEERQR) from the human protein were used as the immunogen for the ABCA4 antibody.

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.