

Datasheet for ABIN5647438
anti-ABCA4 antibody (AA 1890-1927)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	ABCA4
Binding Specificity:	AA 1890-1927
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	Amino acids 1890-1927 (FLLTLLVQRHFFLSQWIAEPTKEPIVDEDDDDVAEERQR) from the human protein were used as the immunogen for the ABCA4 antibody.
Isotype:	IgG
Cross-Reactivity (Details):	Expected species reactivity: Human
Purification:	Antigen affinity purified

Target Details

Target:	ABCA4
Alternative Name:	ABCA4 (ABCA4 Products)
Background:	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

Target Details

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 essential 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.

UniProt: [P78363](#)

Application Details

Application Notes:	Optimal dilution of the ABCA4 antibody should be determined by the researcher.\. WB: 0.5-1 μ g/mL
Restrictions:	For Research Use only

Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 $^{\circ}$ C
Storage Comment:	After reconstitution, the ABCA4 antibody can be stored for up to one month at 4 $^{\circ}$ C. For long-term, aliquot and store at -20 $^{\circ}$ C. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. Western blot testing of 1) rat eye and 2) mouse eye lysate with ABCA4 antibody at 0.5ug/ml. Predicted molecular weight ~256 kDa.