Datasheet for ABIN5518717

anti-ABCA4 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	ABCA4
Binding Specificity:	AA 1890-1927, C-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCA4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Retinal-specific ATP-binding cassette transporter(ABCA4) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human ABCA4 (1890-1927aa FLLTLLVQRHFFLSQWIAEPTKEPIVDEDDDVAEERQR), different from the related mouse sequence by eight amino acids.
Sequence:	FLLTLLVQRH FFLSQWIAEP TKEPIVDEDD DVAEERQR
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Retinal-specific ATP-binding cassette transporter(ABCA4) detection. Tested with WB in Human,Mouse,Rat. Gene Name: ATP-binding cassette, sub-family A (ABC1), member 4 Protein Name: Retinal-specific ATP-binding cassette transporter
Purification:	Immunogen 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 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. Synonyms: ABCA 4 | ABCA4 | ABCR | ARMD 2 | ARMD2 | ATP binding cassette 10 | CORD3 | FFM | P78363 | Photoreceptor rim protein | RIM ABC transporter | RIM protein | RmP | RP19 | Stargardt disease protein | STGD | STGD1
Gene ID:	24
UniProt:	P78363

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images

Western Blotting

Image 1. Western blot analysis of ABCA4 expression in rat eye extract (Lane 1) and mouse eye extract (Lane 2). ABCA4 at 256KD was detected using rabbit anti-ABCA4 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).