

Datasheet for ABIN361347

anti-ABCA4 antibody[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	ABCA4
Reactivity:	Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ABCA4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Partially purified bovine 220-kDa disc rim protein
Clone:	3F4
Isotype:	IgG
Specificity:	Specific for ABCA4
Cross-Reactivity:	Cow (Bovine), Human, Mouse (Murine), Xenopus laevis
Purification:	Protein G purified culture supernatant

Target Details

Target:	ABCA4
Alternative Name:	ABCA4 (ABCA4 Products)
Background:	ABCA4 (ATP-binding cassette, sub-family A (ABC1), member 4, Rim Protein) is a member of the

Target Details

superfamily of ATP-binding cassette (ABC) transporters (Illing et al., 1997). ABC proteins transport various molecules across extra- and intracellular membranes. This protein is a retina-specific ABC transporter with N-retinylidene-PE as a substrate. It is expressed exclusively in retina photoreceptor cells, indicating the gene product mediates transport of an essential molecule across the photoreceptor cell membrane. Mutations in this gene are found in patients diagnosed with Stargardt disease and are associated with retinitis pigmentosa-19 and age-related macular degeneration (Wiszniewski et al., 2003). Defects in ABCA4 are the cause of Stargardt disease type 1 (STGD1) (Molday et al., 2000). STGD is one of the most frequent causes of macular degeneration in childhood. Defects in ABCA4 are also known to cause fundus flavimaculatus (FFM), age-related macular degeneration type 2 (ARMD2) and cone-rod dystrophy type 3 (CORD3) (Klevering et al., 2005). Anti-ABCA4 Immunohistochemical staining of adult mouse retina showing specific immunolabeling of the ABCA4 protein. Photo courtesy of Mary Raven, University of California, Santa Barbara, CA.

Molecular Weight:	~220 kDa
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Gene ID:	11304
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UniProt:	O35600
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Application Details

Application Notes:	Recommended Dilution: WB: 1:1000 IHC: 1:100 Quality Control: Western blots performed on each lot.
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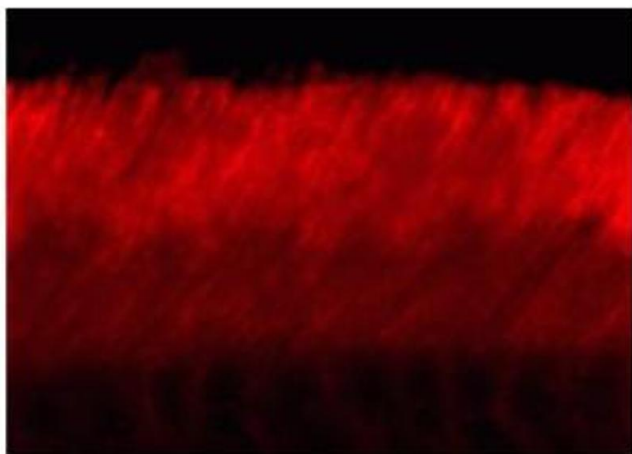
Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.
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Storage:	-20 °C
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Immunohistochemistry

Image 1. Immunohistochemical staining of adult mouse retina showing specific immunolabeling of the ABCA4 protein. Photo courtesy of Mary Raven, University of California, Santa Barbara, CA.