

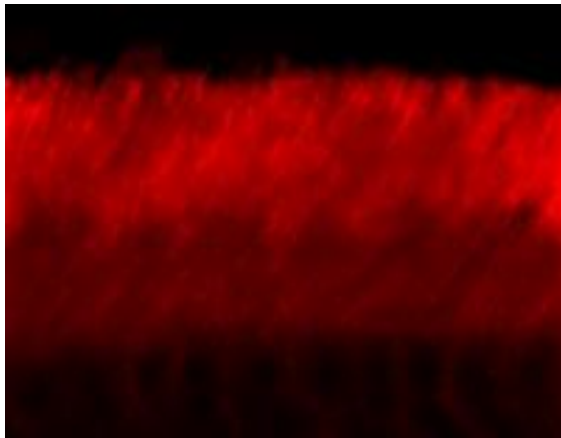
Product Datasheet

Anti-ABCA4 (Rim Protein)

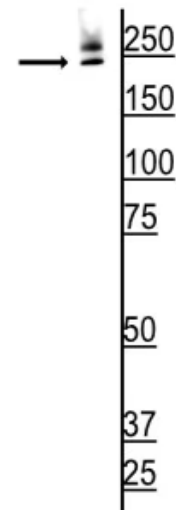
Overview

Catalog #	115-ABCA4
Host Species	Mouse Monoclonal
Isotype	IgG ₁
Clone	3F4
Format	Protein G Purified
Applications	WB 1:1000 IHC 1:100
Species Tested	Bovine, Human, Mouse, <i>Xenopus</i>
Immunogen	Partially purified bovine 220-kDa disc rim protein
Molecular Weight	220 kDa
Cite this Antibody	PhosphoSolutions Cat# 115-ABCA4, RRID:AB_2492034

Images



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



Western blot of 70-day old mouse retina lysate showing immunolabeling of the ~220 kDa ABCA4 protein at a dilution of 1:1000.

Details

Target Description	ABCA4 (ATP-binding cassette, sub-family A (ABC1), member 4, Rim Protein) is a member of the 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).
Specificity	Specific for endogenous levels of ABCA4.
Production/Purification	Protein G purified culture supernatant.
Quality Control	Immunostaining performed on each lot.
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol.
Stability	After date of receipt, stable for at least 1 year at -20°C.

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