**Anti-ABCA4 (Rim Protein) Antibody**

**Catalog#:** 115-ABCA4  
**Size:** 100 µl  
**Isotype:** IgG  
**Clone:** 3F4

<table>
<thead>
<tr>
<th>Host</th>
<th>Applications</th>
<th>Species Tested</th>
<th>Species Assumed*</th>
<th>Molecular Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse</td>
<td>WB 1:1000</td>
<td>B, H, M, X</td>
<td>~220 kDa</td>
<td></td>
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<td></td>
<td>IHC 1:100</td>
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**Product Description:** Protein G purified mouse monoclonal antibody.

**Biological Significance:** ABCA4 (ATP-binding cassette, subfamily 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).

**Antigen:** Partially purified bovine ~220 kDa disc rim protein.

**Antibody Specificity:** Specific for endogenous levels of ABCA4.

**Purification Method:** Protein G purified culture supernatant.

**Quality Control Tests:** Western blots performed on each lot.

**Packaging:** 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

**Storage and Stability:** Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
General References:


