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Datasheet for ABIN343052 anti-ABCA4 antibody (AA 2250-2263)

4 Images	5
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3 Publications



Overview

Quantity:	100 µg
Target:	ABCA4
Binding Specificity:	AA 2250-2263
Reactivity:	Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This ABCA4 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

Product Details

Purpose:	ABCA4
Immunogen:	Synthetic peptide C-KQQTESHDLPLHPR from the C-terminus of human ABCA4 (NP_000341.2). Type of Immunogen: Synthetic peptide
Sequence:	KQQTESHDLP LHPR
Isotype:	lgG
Cross-Reactivity:	Dog, Human
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

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Target Details

Target:	ABCA4
Alternative Name:	ABCA4 (ABCA4 Products)
Background:	ABCA4, ATP-binding cassette, sub-family A (ABC1), member 4, ABC10, ABCR, ARMD2, CORD3, DKFZp781N1972, FFM, RMP, RP19, STGD, STGD1, ATP binding cassette transporter, ATP- binding cassette, sub-family A member 4, ATP-binding transporter, retina-specific, ret
Gene ID:	24
NCBI Accession:	NP_000341
UniProt:	P78363

Application Details

Application Notes:	Peptide ELISA: antibody detection limit dilution 1:128000.
Comment:	Immunofluorescence: Strong expression of the protein seen in the Endoplasmic Reticulum of MCF7 and HeLa cells. Recommended concentration: 10µg/ml. This antibody has been successfully used in IF on Mouse, PMID: 32371886.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

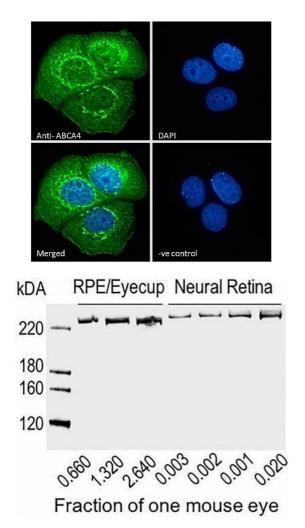
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McClements, Barnard, Issa, MacLaren: "Assessment of AAV Dual Vector Safety in theAbca4-/-Mouse Model of Stargardt Disease." in: **Translational vision science & technology**, Vol. 9, Issue 7, pp. 20, (2020) (PubMed).

McClements, Barnard, Singh, Charbel Issa, Jiang, Radu, MacLaren: "An AAV Dual Vector Strategy Ameliorates the Stargardt Phenotype in Adult Abca4-/- Mice." in: **Human gene therapy** , Vol. 30, Issue 5, pp. 590-600, (2019) (PubMed).

Lenis, Hu, Ng, Jiang, Sarfare, Lloyd, Esposito, Samuel, Jaworski, Bok, Finnemann, Radeke, Redmond, Travis, Radu: "Expression of ABCA4 in the retinal pigment epithelium and its implications for Stargardt macular degeneration." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 115, Issue 47, pp. E11120-E11127, (2019) (PubMed).

Images



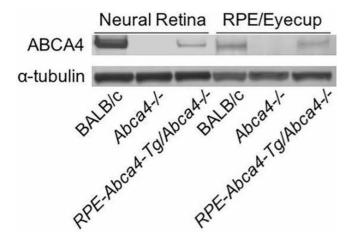
Immunofluorescence

Image 1. ABIN343052 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15 % Triton. Primary incubation 1hr ($10 \mu g/mL$) followed by Alexa Fluor 488 secondary antibody ($2 \mu g/mL$), showing endoplasmic reticulum staining. The nuclear stain

Western Blotting

Image 2. Immunoblot for ABCA4 protein using neural retina and RPE/eyecup homogenates loaded as a fraction of one mouse eye per lane, as indicated.

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Western Blotting

Image 3. Immunoblot of retina and RPE homogenates from BALB/c, Abca4-/-, and RPE-Abca4-Tg/Abca4-/- mice (all albino) reacted with antisera against ABCA4 or alpha-tubulin. Total protein load was 10 µg for neural retina and 25 µg for RPE/eyecup homogenates.

Please check the product details page for more images. Overall 4 images are available for ABIN343052.