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Datasheet for ABIN6655047

anti-ABCA4 antibody



Overview	
Quantity:	100 μL
Target:	ABCA4
Reactivity:	Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ABCA4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Immunogen:	Immunogen: Anti-ABCA4 antibody was produced by repeated immunizations with partially
	purified bovine 220-kDa disc rim protein.
	Immunogen Type: Native Protein
Clone:	3F4
Isotype:	IgG
Cross-Reactivity:	Cow (Bovine), Human, Mouse (Murine), Xenopus laevis
Purification:	Anti-ABCA4 antibody is directed against bovine ABCA4 Rim Protein. The antibody was Protein G
	purified from culture supernatant. Reactivity is expected against human, mouse and Xenopus.
	Cross-reactivity with ABCA4 from other sources has not been determined.

Target Details

ABCA4 Target:

Target Details

ABCA4 Rim Protein (ABCA4 Products)
Synonyms: Retinal-specific ATP-binding cassette transporter, ATP-binding cassette sub-family
A member 4, RIM ABC transporter
Background: ABCA4 antibody detects ABCA4 (ATP-binding cassette, sub-family A (ABC1),
member 4, Rim Protein) a member of the superfamily of ATP-binding cassette (ABC)
transporters. ABC proteins transport various molecules across extra- and intracellular
membranes. ABCA4 is a retina-specific ABC transporter with N-retinylidene-PE as a substrate. I
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. Defects in ABCA4 are the cause of
Stargardt disease type 1 (STGD1). 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). Anti-ABCA4 antibody is ideal for investigators involved in Cell Signaling, Neuroscience
Signal Transduction research.
Gene Name: ABCA4
11304
NP_776646
035600
Immunohistochemistry Dilution: 1:100
Application Note: Anti-ABCA4 antibody is suitable for use in ELISA, Western Blotting and IHC.
Specific conditions should be optimized by the end user. Expect a band of \sim 220 kDa in size
corresponding to ABCA4 proteins in the appropriate cell lysate or extract.
ELISA Dilution: 1:10,000
Western Blot Dilution: 1:1000
For Research Use only
Liquid

Handling

	Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.