



Anti-ABCA1 monoclonal antibody, clone 3A1-891.3 [FITC] (CABT-50920RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti Mouse ABCA1 antibody, clone 3A1-891.3 recognizes murine adenosine triphosphate (ATP) Binding cassette transporter 1 (ABCA1). The ABC transporters are a large family of conserved proteins that transport a wide variety of molecules across cellular membranes. ABCA1 is a member of the ABC-A sub-family, which acts as a lipid translocator. The molecule was originally identified as a scavenger receptor on macrophages and research shows that ABCA1 also plays a major role in cholesterol metabolism. ABCA1 may play an important role in protecting against cardiovascular disease. Mutations in ABCA1 gene have been associated with Tangiers disease, a genetic disorder of lipid metabolism, and familial high density lipoprotein (HDL) deficiency. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	ABCA1
Immunogen	Sythetic peptide corresponding to aa 215-233
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Mouse
Clone	3A1-891.3
Conjugate	FITC
Applications	FC
Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Size	100 µg

Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Abca1 ATP-binding cassette, sub-family A (ABC1), member 1 [Mus musculus (house mouse)]
Official Symbol	ABCA1
Synonyms	ABCA1; ATP-binding cassette, sub-family A (ABC1), member 1; Abc1; ABC-1; ATP-binding cassette sub-family A member 1; ATP-binding cassette 1; ATP-binding cassette transporter 1;
Entrez Gene ID	11303
Protein Refseq	NP_038482
UniProt ID	P41233
Chromosome Location	4 A5-B3; 4 28.57 cM
Pathway	ABC transporters; Fat digestion and absorption; Fatty acid, triacylglycerol, and ketone body metabolism; HDL-mediated lipid transport; Lipid digestion, mobilization, and transport; Lipoprotein metabolism; Metabolism; Metabolism of lipids and lipoproteins;
Function	ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; ATPase binding; anion transmembrane transporter activity; apolipoprotein A-I binding; apolipoprotein A-I receptor activity; apolipoprotein binding; cholesterol transporter activity; nucleotide binding; phospholipid transporter activity; protein binding; receptor binding; small GTPase binding; syntaxin binding; transporter activity;