



Anti-ABCA1 monoclonal antibody, clone 5A1-1422 [R-PE] (CABT-50919RM)

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

PRODUCT INFORMATION

Product Overview

Rat anti Mouse ABCA1 antibody, clone 5A1-1422 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 ABCA1 transfected HeLa cells.

Isotype IgG2a

Source/Host Rat

Species Reactivity Mouse

Clone 5A1-1422

Conjugate PE

Applications FC

Format Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

Size 100 tests

Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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;