



# Anti-ABCA1 monoclonal antibody, clone 5A1-1422 (CABT-50918RM)

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 1x10<sup>6</sup> cells in 100ul.

<b>Specificity</b>	ABCA1
<b>Immunogen</b>	ABCA1 transfected HeLa cells.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	5A1-1422
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	FC; IF
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	250 µg
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Warnings</b>	For research purposes only

# GENE INFORMATION

<b>Gene Name</b>	<a href="#">Abca1 ATP-binding cassette, sub-family A (ABC1), member 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	ABCA1
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">11303</a>
<b>Protein Refseq</b>	<a href="#">NP_038482</a>
<b>UniProt ID</b>	P41233
<b>Chromosome Location</b>	4 A5-B3; 4 28.57 cM
<b>Pathway</b>	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;
<b>Function</b>	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;