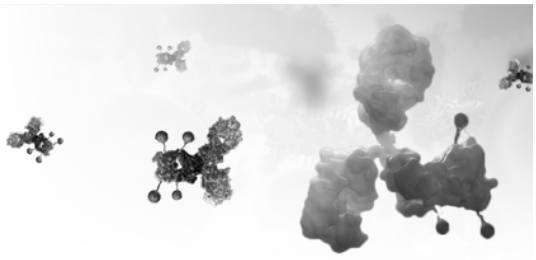

# Anti-ABCA1 monoclonal antibody, clone 5A1-1422 (CABT-50918RM)

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 1x106 cells in 100ul. |
| **Specificity** | ABCA1 |
| **Immunogen** | ABCA1 transfected HeLa cells. |
| **Isotype** | IgG2a |
| **Source/Host** | Rat |
| **Species Reactivity** | Mouse |
| **Clone** | 5A1-1422 |
| **Conjugate** | Unconjugated |
| **Applications** | FC; IF |
| **Format** | Purified IgG - liquid |
| **Size** | 250 µg |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

| | |
|---|---|
| **Preservative** | 0.09% Sodium Azide |
| **Storage** | 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. |

# 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; |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221