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[Marker Primary Antibody]

Rabbit Anti-ABCG1/AF594 Conjugated antibody

Catalog Number: SL23382R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ABCG1/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human ABCG1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog)
Background:	background: The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types. Six alternative splice variants have been identified. **Function:** Transporter involved in macrophage lipid homeostasis. Is an active component of the macrophage lipid export complex. Could also be involved in intracellular lipid transport processes. The role in cellular lipid homeostasis may not be limited to macrophages. **Subunit:** May form heterodimers with several heterologous partners of the ABCG subfamily. **Subcellular Location:** Endoplasmic reticulum membrane. Golgi apparatus

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	membrane. Predominantly localized in the intracellular compartments mainly associated with the endoplasmic reticulum (ER) and Golgi membranes. **Tissue Specificity:** Expressed in several tissues. Expressed in macrophages; expression is increased in macrophages from patients with Tangier disease. **Post-translational modifications:** Palmitoylation at Cys-315 seems important for trafficking from the endoplasmic reticulum. **Similarity:** Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily. Contains 1 ABC transmembrane type-2 domain. Contains 1 ABC transporter domain. **Database links:** **Entrez Gene:** 510745 Cow **Entrez Gene:** 9619 Human **Entrez Gene:** 85264 Rat Omim: 603076 Human **SwissProt:** P45844 Human **Unigene:** 124649 Human **Unigene:** 8398 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. ABCG1 is a member of the ABC transporter family and is a monomeric transporter located in the plasma membrane of tissues, distributed mainly in the liver, small intestine, placenta, adipose tissue and spleen. It is mainly used in research on lipid/lipoprotein metabolism and atherosclerosis.