

## Anti-ABCG1 Rabbit Monoclonal Antibody Catalog # ABO13629

### Specification

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#### Anti-ABCG1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P45844</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-ABCG1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Rat.

#### Anti-ABCG1 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 9619

#### Other Names

ATP-binding cassette sub-family G member 1, 7.6.2.-, ATP-binding cassette transporter 8, White protein homolog, ABCG1 ([HGNC:73](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=73)), ABC8, WHT1

#### Calculated MW

75592 MW KDa

#### Application Details

WB 1:500-1:1000<br>IHC 1:50-1:100<br>ICC/IF 1:50-1:100

#### Subcellular Localization

Endoplasmic reticulum membrane ; Multi-pass membrane protein. Golgi apparatus membrane ; Multi-pass membrane protein. 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..

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human ABCG1

#### Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## **Anti-ABCG1 Rabbit Monoclonal Antibody - Protein Information**

**Name** ABCG1 ([HGNC:73](#))

**Synonyms** ABC8, WHT1

### **Function**

Catalyzes the efflux of phospholipids such as sphingomyelin, cholesterol and its oxygenated derivatives like 7beta- hydroxycholesterol and this transport is coupled to hydrolysis of ATP (PubMed:[17408620](http://www.uniprot.org/citations/17408620)), PubMed:[24576892](http://www.uniprot.org/citations/24576892)). The lipid efflux is ALB-dependent (PubMed:[16702602](http://www.uniprot.org/citations/16702602)). 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. Prevents cell death by transporting cytotoxic 7beta- hydroxycholesterol (PubMed:[17408620](http://www.uniprot.org/citations/17408620)).

### **Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cell membrane Note=Predominantly localized in the intracellular compartments mainly associated with the endoplasmic reticulum (ER) and Golgi membranes

### **Tissue Location**

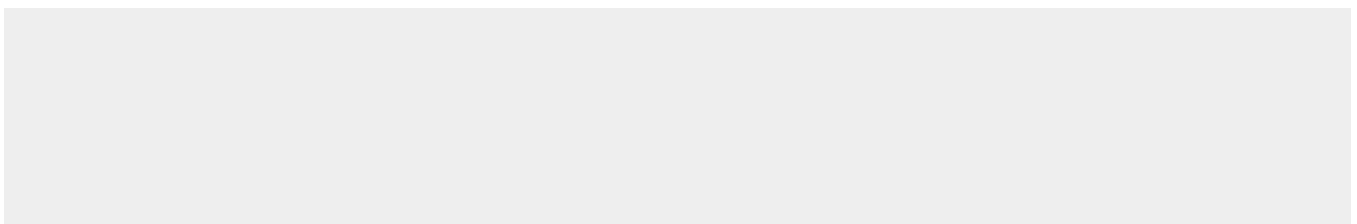
Expressed in several tissues. Expressed in macrophages; expression is increased in macrophages from patients with Tangier disease.

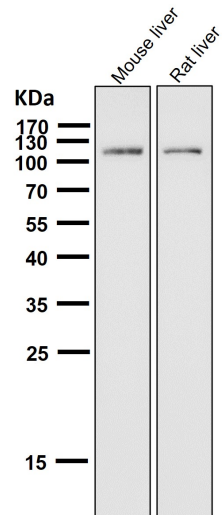
## **Anti-ABCG1 Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

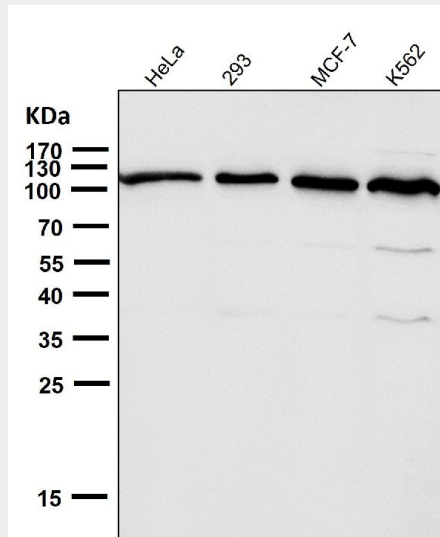
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-ABCG1 Rabbit Monoclonal Antibody - Images**

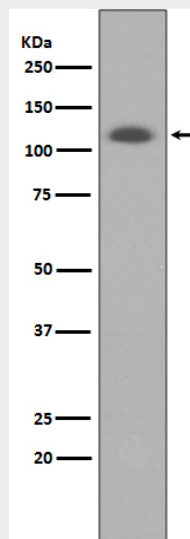




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of ABCG1 expression in HUVEC cell lysate.