10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-ABCG1 Rabbit Monoclonal Antibody

Catalog # ABO13629

Specification

Anti-ABCG1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC**
Primary Accession	P45844
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), ABC8, WHT1

Calculated MW
75592 MW KDa

Application Details
WB 1:500-1:1000
IHC 1:50-1:100
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, PubMed:24576892). The lipid efflux is ALB-dependent (PubMed: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).

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 Cytomety
- Cell Culture

Anti-ABCG1 Rabbit Monoclonal Antibody - Images

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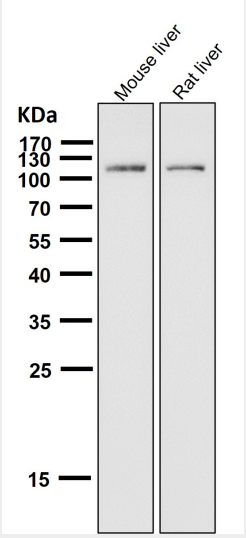
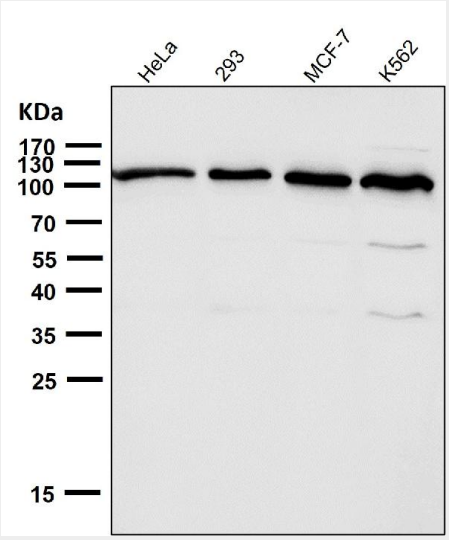


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



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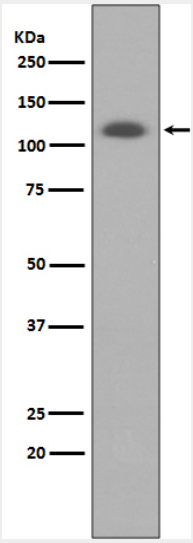

Western blot analysis of ABCG1 expression in HUVEC cell lysate.