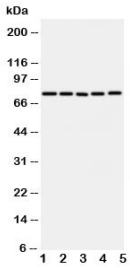
# ABCG1 Antibody (R30967)

| Catalog No. | Formulation | Size |
|---|---|---|
| R30967 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | P45844 |
| **Localization** | Cytoplasmic |
| **Applications** | Western Blot : 0.5-1ug/ml |
| **Limitations** | This ABCG1 antibody is available for research use only. |




Western blot testing of ABCG1 antibody and Lane 1: U87; 2: SMMC-7721; 3: HeLa; 4: COLO320; 5: MCF-7 cell lysate. Predicted molecular weight: 75~90KD

## Description

ABCG1 (ATP-binding cassette, subfamily G, member 1) also known as ABC8, is a protein that in humans is encoded by the ABCG1 gene. ABCG1 is a regulator of macrophage cholesterol and phospholipid transport. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. The gene is mapped on 21q22.3. 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. ABCG1 is induced in monocyte-derived macrophages

during cholesterol influx mediated by acetylated low-density lipoprotein. Inhibition of ABCG1 protein expression using an antisense strategy resulted in reduced HDL3-dependent efflux of cholesterol and choline-phospholipids. In macrophages, silencing of GPS2 by RNA interference reducedABCG1expression and diminished ABCG1-mediated cholesterol efflux.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ABCG1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human ABCG1 (ETCHFQKSEAILRELDVENAK) was used as the immunogen for this ABCG1 antibody (100% homologous in human, mouse and rat).

## Storage

After reconstitution, the ABCG1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


Copyright © NSJ Bioreagents. All rights reserved.