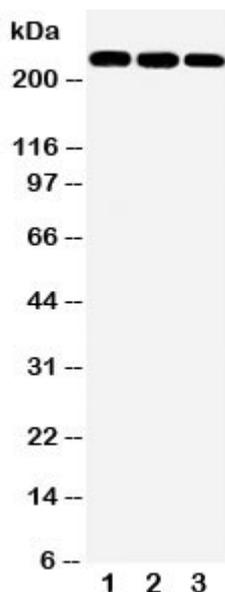


**ABCA1 Antibody [Discontinued, [view alternatives](#)] (R30941)**

| Catalog No. | Formulation   | Size   |
|-------------|---|--------|
| R30941      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

|                           |  |
|---------------------------|--|
| <b>Availability</b>       | Discontinued   |
| <b>Species Reactivity</b> | Human, Mouse, Rat  |
| <b>Format</b>             | Antigen affinity purified  |
| <b>Clonality</b>          | Polyclonal (rabbit origin)   |
| <b>Isotype</b>            | Rabbit IgG   |
| <b>Purity</b>             | Antigen affinity   |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| <b>UniProt</b>            | O95477   |
| <b>Applications</b>       | Western blot : 0.5-1ug/ml  |
| <b>Limitations</b>        | This ABCA1 antibody is available for research use only.                  |



Western blot testing of ABCA1 antibody and Lane 1: rat brain; 2: human HT1080; 3: (h) HeLa cell lysate. Expected/observed molecular weight: 220~254kDa.

## Description

ATP-binding cassette, sub-family A, member 1, also known as ABC1, and the Cholesterol efflux regulatory protein (CERP), is a protein which in humans is encoded by the ABCA1 gene. The membrane-associated 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 intracellular membranes. Dot blot analysis of 50 tissues revealed ubiquitous expression of ABCA1 mRNA, with highest expression in placenta, liver, lung, adrenal glands, and all fetal tissues examined, and lowest expression in kidney, pancreas, pituitary, mammary gland, and bone marrow. This protein is a member of the ABCA subfamily. Members of the ABCA subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. With cholesterol as its substrate, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Using human ABCA1 expressed in the membrane fraction of sf9 insect cells, Szakacs et al. found specific, Mg(2+)-dependent ATP binding and low basal ATPase activity. Addition of potential lipid substrates or lipid acceptors did not modify the ATPase activity or nucleotide occlusion by ABCA1. Szakacs et al. speculated that it may be a regulatory protein or may require other protein partners for full activation.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ABCA1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human ABCA1 (NFAKDQSDDDHLKDLSLH) was used as the immunogen for this ABCA1 antibody (100% homologous in human, mouse and rat).

## Storage

After reconstitution, the ABCA1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.