

## Recombinant Mouse ABCA1, His-tagged

**Cat. No.** ABCA1-3696M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | ATP Binding Cassette Transporter A1 (ABCA1)  |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 2261   |
| <b>Description</b>      | <p>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. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. In humans, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in the human gene have been associated with Tangier's disease and familial high-density lipoprotein deficiency.</p> |
| <b>Form</b>             | Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.  |
| <b>Molecular Mass</b>   | 30.1kDa  |
| <b>Endotoxin</b>        | <1.0eu per 1ug (determined by the lal</1.0eu   |
| <b>Purity</b>           | >95%   |

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|-----------------------|---|
| <b>Applications</b>   | SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)  |
| <b>Notes</b>          | Small volumes of ABCA1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.  |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH 7.2-7.4.  |
| <b>Warning</b>        | This product is for research use only. Not for use in diagnostic or therapeutic procedures.   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | <a href="#">Abca1 ATP-binding cassette, sub-family A (ABC1), member 1 [ Mus musculus ]</a>   |
| <b>Official Symbol</b> | ABCA1  |
| <b>Synonyms</b>        | ABCA1; ATP-binding cassette, sub-family A (ABC1), member 1; ATP-binding cassette sub-family A member 1; ATP-binding cassette 1; ATP-binding cassette transporter 1; Abc1; ABC-1; |
| <b>Gene ID</b>         | <a href="#">11303</a>  |

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|----------------------------|---|
| <b>mRNA Refseq</b>         | NM_013454   |
| <b>Protein Refseq</b>      | NP_038482   |
| <b>Chromosome Location</b> | 4 A5-B3; 4 28.57 cM   |
| <b>Pathway</b>             | ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; HDL-mediated lipid transport, organism-specific biosystem;  |
| <b>Function</b>            | ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; anion transmembrane transporter activity; apolipoprotein A-I binding; apolipoprotein A-I receptor activity; apolipoprotein binding; cholesterol transporter activity; cholesterol transporter activity; cholesterol transporter activity; nucleoside-triphosphatase activity; nucleotide binding; phospholipid transporter activity; phospholipid transporter activity; phospholipid transporter activity; protein binding; small GTPase binding; syntaxin binding; |

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