SPECIFICATION SHEET

Product Name: Recombinant ABCA7 Protein **Catalog #:** L2B008

Description: ATP Binding Cassette Subfamily A Member 7

Source: Expressed in E. coli

Purification: Purified, >85% pure by SDS-PAGE

Concentration&Lot: 1.9mg/ml **Lot:** L170701

Buffer: 20Mm Tris-HCl 140mM NaCl 2mM EDTA PH8.0

Preservative: None

Background: ATP-binding cassette (ABC) transporters are an evolutionarily conserved family of widely-expressed proteins that use ATP hydrolysis to catalyze the transport of various molecules across extracellular and intracellular membranes. Eukaryotic ABC transporters are largely responsible for trafficking hydrophobic compounds either within the cell as part of a metabolic process, outside the cell for transport to other organs, or for secretion from the body. The cholesterol-responsive transporter, ABCA7, maps to human chromosome 19 and mouse chromosome 10 and has been reported as a candidate regulator of ceramide transport in epidermal lipid reorganization. High expression levels of ABCA7 have been reported in myelolymphatic tissues, reticuloendothelial cells, peripheral leukocytes, thymus, spleen and bone marrow. This expression pattern of the two alternatively-spliced isoforms also indicates an involvement in lipid homeostasis in cells of the immune system, though the complete role of ABCA7 is not yet known. Full-length type I ABCA7 has shown plasma membrane localization, while the type II splicing variant has shown expression predominantly in the endoplasmic reticulum.

Storage&Shelf life: Store at -20°C for 3 years. Avoid multiple freeze/thaw cycles.

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FOR RESEARCH USE ONLY.

上海领潮生物科技有限公司
地址：上海松江区南乐路 1276 弄 115 号 10 号楼 201
邮编：201611
电话：021-58371045，传真：021-58371045
网址：www.linc-bio.com 邮箱：linc-bio@163.com

Shanghai Linc-Bio Science Co. Ltd
Adress: F201, Building 10, NO.115,Lane 1276, NanLe Road,
Songjiang District, Shanghai, PRC (201611)
Phone:021-58371045 Fax:021-58371045
http//:www.linc-bio.com Email:linc-bio@163.com