Recombinant Mouse ABCB4 Protein (352-708 aa), GST-tagged

Cat. No. ABCB4-301M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ABCB4 Protein (352-708 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Partial.
Species	Mouse
Source	E.coli
ProteinLength	352-708 aa
Description	Energy-dependent phospholipid efflux translocator that acts as a positive regulator of biliary lipid secretion. Functions as a floppase that translocates specifically phosphatidylcholine (PC) from the inner to the outer leaflet of the canalicular membrane bilayer into the canaliculi between hepatocytes. Translocation of PC makes the biliary phospholipids available for extraction into the canaliculi lumen by bile salt mixed micelles and therefore protects the biliary tree from the detergent activity of bile salts (PubMed:8106172, PubMed:7912658, PubMed:7592705, PubMed:7814632, PubMed:8725158, PubMed:9366571). Plays a role in the recruitment of phosphatidylcholine (PC), phosphatidylethanolamine (PE) and sphingomyelin (SM) molecules to nonraft membranes and to further enrichment of SM and cholesterol in raft membranes in hepatocytes (By similarity). Required for proper phospholipid bile formation (PubMed:8106172). Indirectly involved in cholesterol efflux activity from hepatocytes into the canalicular lumen in the presence of bile salts in an ATP-dependent manner (PubMed:7814632, PubMed:8725158). May promote

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	biliary phospholipid secretion as canaliculi-containing vesicles from the canalicular plasma membrane (PubMed:9366571). In cooperation with ATP8B1, functions to protect hepatocytes from the deleterious detergent activity of bile salts (PubMed:21820390). Does not confer multidrug resistance (PubMed:1990275).
Form	Tris-based buffer, 50% glycerol
Molecular Mass	66.6 kDa
AA Sequence	DAFANARGAAYVIFDIIDNNPKIDSFSERGHKPDNIKGNLEFSDVHFSYPSRANIKILK GLNLKVKSGQTVALVGNSGCGKSTTVQLLQRLYDPTEGKISIDGQDIRNFNVRCLREI IGVVSQEPVLFSTTIAENIRYGRGNVTMDEIEKAVKEANAYDFIMKLPQKFDTLVGDR GAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAEVQAALDKAREGRTTIVIA HRLSTIRNADVIAGFEDGVIVEQGSHSELMKKEGIYFRLVNMQTAGSQILSEEFEVEL SDEKAAGDVAPNGWKARIFRNSTKKSLKSPHQNRLDEETNELDANVPPVSFLKVLK LNKTEWPYF
Purity	> 90% as determined by SDS-PAGE
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

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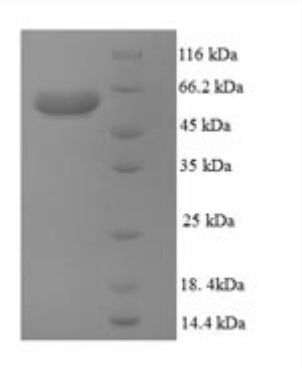
Gene Name	Abcb4 ATP-binding cassette, sub-family B (MDR/TAP), member 4 [Mus musculus]
Official Symbol	ABCB4
Synonyms	ABCB4; P glycoprotein 2; P-glycoprotein 3; Mdr2; Pgy2; Pgy-2; mdr-2;
Gene ID	18670
mRNA Refseq	NM_008830
Protein Refseq	NP_032856



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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