

Recombinant Human ABCA1 protein, GST-tagged

Cat. No. ABCA1-178H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABCA1(86 a.a. - 185 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	86-185 a.a.
Description	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. With cholesterol as its substrate, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in this gene have been associated with Tangier's disease and familial high-density lipoprotein deficiency.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	TPGEAPGVVGNFNKSIVARLFSDARRLLLYSQKDTSMKDMRKVLRTLQQIKKSSSNL KLQDFLVDNETFSGFLYH NLSLPKSTVDKMLRADVILHKVFLQ

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
GENE INFORMATION	
Gene Name	ABCA1 ATP-binding cassette, sub-family A (ABC1), member 1 [Homo sapiens]
Official Symbol	ABCA1
Synonyms	ABCA1; ATP-binding cassette, sub-family A (ABC1), member 1; ABC1, HDLDT1; ATP-binding cassette sub-family A member 1; Tangier disease; TGD; membrane-bound; ATP-binding cassette transporter 1; ATP-binding cassette transporter A1; cholesterol efflux regulatory protein; ABC1; CERP; ABC-1; HDLDT1;
Gene ID	19
mRNA Refseq	NM_005502
Protein Refseq	NP_005493
MIM	
UniProt ID	O95477
Chromosome Location	9q31
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved

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biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; HDL-mediated lipid transport, organism-specific biosystem;

Function

ATP binding; ATPase activity; anion transmembrane transporter activity; apolipoprotein A-I binding; apolipoprotein A-I receptor activity; apolipoprotein binding; cholesterol binding; cholesterol transporter activity; nucleotide binding; phospholipid binding; phospholipid transporter activity; protein binding; small GTPase binding; syntaxin binding;