abcam

Product datasheet

Recombinant Human ABCA1 protein ab125995

1 References

Description

Product name	Recombinant Human ABCA1 protein
Purity	> 90 % SDS-PAGE. Purified via His tag
Expression system	Escherichia coli
Accession	Q84M24
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	NCALSVVKEGRSVVLTSHSMEECEALCTRMAIMVNGRFR CLGSVQHLKNR FGDGYTIVVRIAGSNPDLKPVQDFFGLAFPGSVLKEKHRN MLQYQLPSSL SSLARIFSILSQSKKRLHIEDYSVSQTTLDQVFVNFAKDQS DDDHLKDLS LHKNQTVVDVA
Amino acids	2085 to 2245

Specifications

Our **Abpromise guarantee** covers the use of **ab125995** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Constituents: 0.32% Tris HCl, 0.58% Sodium chloride, 0.2% Guanidine HCl
Reconstitution	Reconstitute with water to desired concentration.

General Info

Function	cAMP-dependent and sulfonylurea-sensitive anion transporter. Key gatekeeper influencing intracellular cholesterol transport.
Tissue specificity	Widely expressed, but most abundant in macrophages.
Involvement in disease	Defects in ABCA1 are a cause of high density lipoprotein deficiency type 1 (HDLD1) [MIM:205400]; also known as analphalipoproteinemia or Tangier disease (TGD). HDLD1 is a recessive disorder characterized by absence of high density lipoprotein (HDL) cholesterol from plasma, accumulation of cholesteryl esters, premature coronary artery disease (CAD), hepatosplenomegaly, recurrent peripheral neuropathy and progressive muscle wasting and weakness. Defects in ABCA1 are a cause of high density lipoprotein deficiency type 2 (HDLD2) [MIM:604091]; also known as familial hypoalphalipoproteinemia (FHA). HDLD2 is inherited as autosomal dominant trait. It is characterized by moderately low HDL cholesterol, predilection toward premature coronary artery disease (CAD) and a reduction in cellular cholesterol efflux.
Sequence similarities	Belongs to the ABC transporter superfamily. ABCA family. Contains 2 ABC transporter domains.
Domain	Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.
Post-translational modifications	Phosphorylation on Ser-2054 regulates phospholipid efflux. Palmitoylation by DHHC8 is essential for membrane localization.
Cellular localization	Membrane.

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