

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	<u>Q84M24</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	NCALSVVKEGRSVVLTSHSMEECEALCTRMAIMVNGRFR CLGSVQHLKNR FGDGYTMVRIAGSNPDLKPVQDFGLAFPGSVLKEKHRN MLQYQLPSSL SSLARIFSILSQSKKRLHIEDYSVSQTTLQVFVNFAKDQS DDDHLKDLS LHKNTVVDVA	
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	<p>Defects in ABCA1 are a cause of high density lipoprotein deficiency type 1 (HDL1) [MIM:205400]; also known as analphalipoproteinemia or Tangier disease (TGD). HDL1 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.</p> <p>Defects in ABCA1 are a cause of high density lipoprotein deficiency type 2 (HDL2) [MIM:604091]; also known as familial hypoalphalipoproteinemia (FHA). HDL2 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.</p>
Sequence similarities	<p>Belongs to the ABC transporter superfamily. ABCA family.</p> <p>Contains 2 ABC transporter domains.</p>
Domain	Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.
Post-translational modifications	<p>Phosphorylation on Ser-2054 regulates phospholipid efflux.</p> <p>Palmitoylation by DHHC8 is essential for membrane localization.</p>
Cellular localization	Membrane.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors