

## Datasheet for ABIN7519684 **APOA1 Protein (Fc Tag)**



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### Overview

Quantity:	100 µg
Target:	APOA1
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This APOA1 protein is labelled with Fc Tag.

### Product Details

Purpose:	Active Recombinant Mouse Apolipoprotein A-I/APOA1 Protein
Sequence:	DEPQSQWDKV KDFANVYVDA VKDSGRDYVS QFESSSLGQQ LNLNLLLENWD TLGSTVSQLQ ERLGPLTRDF WDNLEKETDW VRQEMNKDLE EVKQKVQPYL DEFQKKWKED VELYRQKVAP LGAELQESAR QKLQELQGRL SPVAEEFRDR MRTHVDSLRT QLAPHSEQMR ESLAQRLAEL KSNPTLNEYH TRAKTHLCTL GEKARPALED LRHSLMPMLE TLKTQVQSVI DKASETLTAQ
Specificity:	Asp25-Gln264
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Mouse A-I/APOA1 at 5µg/mL (100 µL/well) can bind Human MSR1/CD204 with a linear range of 1-21.4ng/mL.

## Target Details

Target:	APOA1
Alternative Name:	Apolipoprotein A-I/APOA1 ( <a href="#">APOA1 Products</a> )
Background:	<p>Description: Apolipoprotein A1 (APOA1) is a member of the apolipoprotein family whose members are proteins bind with lipids and form lipoproteins to translate these oil-soluble lipids such as fat and cholesterol through lymphatic and circulatory system. APOA1 is the main component of high density lipoprotein (HDL) in plasma and is involved in the esterification of cholesterol as a cofactor of lecithin-cholesterol acyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters, and thus play a major role in cholesterol efflux from peripheral cells. As a major component of the HDL complex, APOA1 helps to clear cholesterol from arteries. APOA1 is also characterized as a prostacyclin stabilizing factor, and thus may have an anticlotting effect. Defects in encoding gene may result in HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Men carrying a mutation may develop premature coronary artery disease.</p> <p>Name: Sep2,Alp-1,Ltw-1,Sep-1,Sep-2,Apoa-1,Brp-14,Lvtw-1,apo-AI,apoA-I,APOA1</p>
Gene ID:	11806
UniProt:	<a href="#">Q00623</a>
Pathways:	<a href="#">Regulation of Lipid Metabolism by PPARalpha</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Lipid Metabolism</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.