

Product Information

Magic™ Membrane Protein Human APOA1 (Apolipoprotein A1) for Antibody Discovery

{AlternativeNames}

Cat. No.: **MP0047X**

This product is for research use only and is not intended for diagnostic use.

This product is a 55.11 kDa Human APOA1 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

APOA1

Protein Length

Full-length

Molecular Weight

55.11 kDa

Sequence

MKAAVLTLAVLFLTGSRARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLL
DNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYRQ
KVEPLRAELQEGARQKLHELQEKLSPGGEEMRDRARAHVDALRTHLAPYSDELQRRLAARLEALKENGGA
RLAEYHAKATEHLSTLSEKAKPALEDLRQGILLPVLESFKVSFLSALEEYTKKLNTQ

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

APOA1

Full Name

Apolipoprotein A1

Introduction

This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein

Alternative Names

MGC117399; OTTHUMP00000069346; OTTHUMP00000069347; OTTHUMP00000069348; apolipoprotein A1

Gene ID

[335](#)

UniProt ID

[P02647](#)