

Product Datasheet

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Recombinant Human ApoE2 (HEK293 Expressed) — Purified No Carrier Protein

Recombinant Protein

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

410 Axminster Dr, St. Louis, MO 63026

(800) 538-1145

leincoglobal@leinco.com

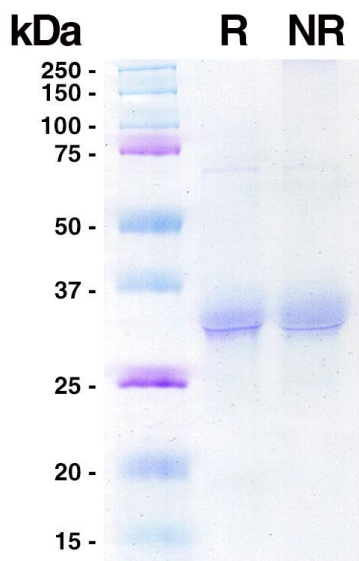
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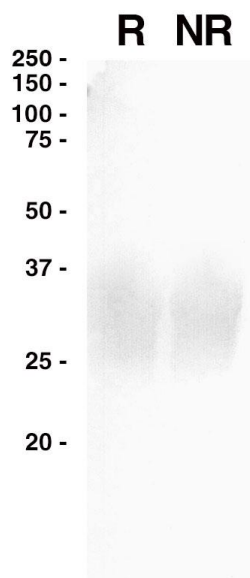


Product Information

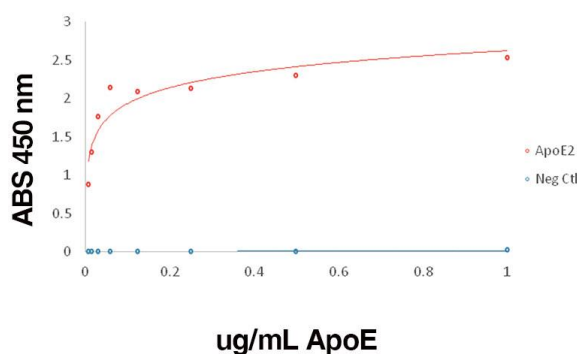
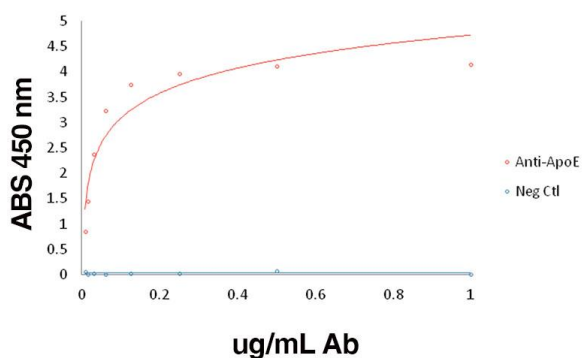
Product No.: A440



Human ApoE2



VLDLR-ApoE2



Product Description

Background:

Apolipoprotein E (ApoE) is a 299 amino acid protein, produced by the liver and circulating macrophages, that is a constituent of every plasma lipoprotein except the smallest low density lipoproteins (LDL). It is a key player in the recycling and redistribution of lipids and cholesterol. ApoE is a ligand with a high affinity for low density lipoprotein receptors (LDLR). It regulates the activity of

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enzymes that metabolize lipids and also make lipids soluble. Mice and humans that lack ApoE cannot remove excess lipoproteins from the plasma and have an increased risk of atherosclerosis. Defective binding of ApoE to its receptors will lead to accumulation of cholesterol-rich lipoprotein particles in the plasma; this is the cause of type III hyperlipoproteinemia. There are three main isoforms of ApoE all products of alleles at a single gene locus: E2 (Cys112, Cys158), E3 (Cys112, Arg158), and E4 (Arg112, Arg158).

Expression Host:

HEK-293 Cells

Format:

Purified No Carrier Protein

Formulation

This lyophilized protein is 0.22 μ m sterile filtered and lyophilized from 20 mM Sodium Phosphate, pH 7.8 + 0.5 mM DTT.

Purity

$\geq 90\%$ by SDS PAGE

Endotoxin

< 1.0 EU/ μ g

Storage and Stability

This lyophilized protein is stable for twelve months when stored at -20°C to -70°C . After aseptic reconstitution, this protein may be stored for one month at 2°C to 8°C or for three months at -20°C to -70°C **in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.**

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

**ELISA,
WB,
FA**

Country of Origin

USA

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