

**Human Apolipoprotein A-II (Apo A-II) protein**

□ Cat. # APOA25-N-100

Apolipoprotein A-II, Human Plasma, HDL

**SIZE:** 100 ug

Apolipoproteins are proteins that bind to fats (lipids). They form lipoproteins, which transport dietary fats through the bloodstream. Dietary fats are digested in the intestine and carried to the liver. Fats are also synthesized in the liver itself. Fats are stored in fat cells (adipocytes). Fats are metabolized as needed for energy in the skeletal muscle, heart, and other organs and are secreted in breast milk. Apolipoproteins also serve as enzyme co-factors, receptor ligands, and lipid transfer carriers that regulate the metabolism of lipoproteins and their uptake in tissues.

Apolipoprotein A-II is a protein that in humans is encoded by the APOA2 gene. This gene encodes apolipoprotein (apo-) A-II, which is the second most abundant protein of the high density lipoprotein particles. The protein is found in plasma as a monomer, homodimer, or heterodimer with apolipoprotein D. Defects in this gene may result in apolipoprotein A-II deficiency or hypercholesterolemia. 25% of Apo A in HDL is Apo AII. Levels of Apo AII in normal plasma range from 30-50 mg per 100 ml. The physiological role of the protein is unknown. Alcohol consumption, however, increases Apo AII levels

**Source of Antigen, Antibodies, and positive controls**

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Human Apo A-II was purified from plasma (>95%, ~17.4 Kda). It is supplied lyophilized in a buffer (10 mM NaHCO<sub>3</sub>, pH 7.4). All human derived material has been tested negative for HIV, HCV, and HbSAg. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous. Store powder at -20oC. Reconstitute powder at 100 ug/ml or higher in PBS or other buffers. Store at -20oC in suitable aliquots. Stable for up to 6 months.

**Recommended Usage**

**Western Blotting use at 100-500 ng per lane and detect with appropriate antibodies (#APOA21-A).** Human ApoA-I s approx. ~17.4 KDa (1).

**ELISA** (1:10K-1:100K; using 50-100 ng of control peptide/well).

**General References:** Tsao YK (1986) JBC 260, 15222-15231; Pussinen PJ (1998) J. Lipid Res. 39, 152-161;

\*This product is for In vitro research use only.

**Related material available from ADI**

| Catalog#  | ProdDescription                                   |
|---|---|
| APOC11-A  | Anti-Human Apolipoprotein C-I IgG, aff pure       |
| APOC11-C  | Human Apolipoprotein C-I protein control for WB   |
| APOC15-N-100  | Apolipoprotein C-I, Human Plasma, VLDL            |
| APOC21-S  | Anti-Human Plasma Apolipoprotein C-II antiserum   |
| APOC22-A  | Anti-Human Apolipoprotein C-II IgG, aff pure      |
| APOC22-C  | Human Apolipoprotein C-II protein control for WB  |
| APOC25-N-50   | Apolipoprotein C-II, Human Plasma, VLDL           |
| APOC32-A  | Anti-Human Apolipoprotein C-III IgG, aff pure     |
| APOC32-C  | Human Apolipoprotein C-III protein control for WB |
| APOC35-N-50   | Apolipoprotein C-III, Human Plasma, VLDL          |
| Anti-ApoA, ApoB, ApoC, ApoE -Beta amyloid 1-40, 1-42, APP, Parkin, Synucleins (α, β, γ), Presenilins 1, 2, ERAB |   |

APOA15-N-100

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