

**Human Apolipoprotein C-I (Apo C-I) protein and antibodies**

Cat. # APOC11-A	Rabbit Anti-Human Apo C-I protein IgG, aff pure	<b>SIZE:</b> 100 ul
Cat. # APOC11-C	Purified Human Apo C-I protein control for WB	<b>SIZE:</b> 100 ul

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 C-I is a protein that in humans is encoded by the APOC1 gene. The protein encoded by this gene is a member of the apolipoprotein C1 family. This gene is expressed primarily in the liver, and it is activated when monocytes differentiate into macrophages. A pseudogene of this gene is located 4 kb downstream in the same orientation, on the same chromosome. This gene is mapped to chromosome 19, where it resides within an apolipoprotein gene cluster. Alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.. The concentration of Apo CII in normal plasma is 4-7 mg per 100 ml.

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

<b>Antigen</b>	Purified human Apo C-I protein
<b>Ab Host/type</b>	Rabbit, Poly IgG # <b>APOC11-A</b>
2-Ab	<b>Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)</b>
<b>-ve control IgG</b>	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Cat# APOC11-C**

For Western blot +ve control, purified human Apo C-III protein (Cat # **APOC11-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **APOC11-C** for good visibility with antibody Cat # **APOC11-A**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several

weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **APOC11-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly.

**Form & Storage of Antibodies/Peptide Control**

**IgG purified**  
100 ul/vial solution lyophilized powder  
contains 0.05% sodium azide  
**Reconstitute powder** 100 ul PBS

**Recommended Usage**

**Western Blotting** 1-3 ug/ml using Chemiluminescence technique). Human ApoC-I s approx. ~6.6 KDa (1).

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

**Histochemistry & Immunofluorescence: not tested.** We recommend a antibody testing at 5-20 ug/ml.

**Specificity & Cross-reactivity**

The antibody reacts with human Apo C-I in ELISA and Western. Antibody crossreactivity in various species is not established. #APOC111-C protein control should be used a positive control for western.

**General References:** Shulman RS (1975) JBC 250, 182-190; Tata F (1985) Hum. Genet. 69, 345-349; Curry MD (1981) Clin. Chem. 27, 543-548; Gautier T (2001) JBC 275, 37504-09;

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

**Related material available from ADI**

Ant-ApoA, ApoB, ApoC, ApoE -Beta amyloid 1-40, 1-42, APP, Parkin, Synucleins (α, β, γ), Presenilins 1, 2, ERAB

APOC11-A-C 100317A

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