

apoA-IV (C-20): sc-19038

BACKGROUND

Apolipoproteins are protein components of plasma lipoproteins. The human apoA-I gene encodes a single chain, 243 amino acid protein which promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A-I is the major protein component of high density lipoprotein (HDL) in the plasma. It can function as a cofactor for lecithin cholesterolacyltransferase (LCAT), which is responsible for the formation of most plasma cholesteryl esters. The human apoA-II gene encodes the second most abundant protein of HDL particles, where it influences plasma levels of free fatty acids (FFA). The human apoA-IV gene encodes a 396 amino acid preprotein which, after proteolytic processing, is secreted from the intestine in association with chylomicron particles. ApoA-IV is a potent activator of LCAT *in vitro*. The human apoA-V gene encodes a 366 amino acid protein that is believed to be an important determinant of plasma triglyceride levels.

CHROMOSOMAL LOCATION

Genetic locus: APOA4 (human) mapping to 11q23.3; ApoA4 (mouse) mapping to 9 A5.2.

SOURCE

apoA-IV (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of apoA-IV of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-19038 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

apoA-IV (C-20) is recommended for detection of apoA-IV of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

apoA-IV (C-20) is also recommended for detection of apoA-IV in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for apoA-IV siRNA (h): sc-41178, apoA-IV siRNA (m): sc-41179, apoA-IV shRNA Plasmid (h): sc-41178-SH, apoA-IV shRNA Plasmid (m): sc-41179-SH, apoA-IV shRNA (h) Lentiviral Particles: sc-41178-V and apoA-IV shRNA (m) Lentiviral Particles: sc-41179-V.

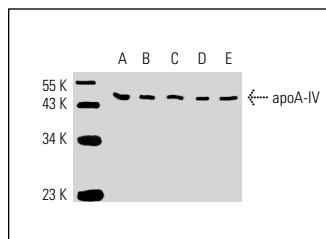
Molecular Weight of apoA-IV: 46 kDa.

Positive Controls: Y79 cell lysate: sc-2240, Hep G2 cell lysate: sc-2227 or apoA-IV (h): 293T Lysate: sc-373359.

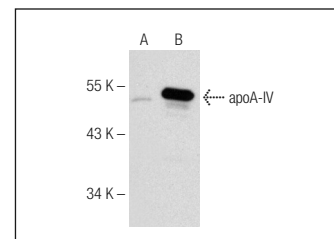
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



apoA-IV (C-20): sc-19038. Western blot analysis of apoA-IV expression in Y79 (A), Hep G2 (B), HeLa (C), ME-180 (D) and CaSki (E) whole cell lysates.



apoA-IV (C-20): sc-19038. Western blot analysis of apoA-IV expression in non-transfected: sc-117752 (A) and human apoA-IV transfected: sc-373359 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **apoA-IV (G-8): sc-374543**, our highly recommended monoclonal alternative to apoA-IV (C-20).