

apoA-I (h): 293T Lysate: sc-111827

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. ApoA-I is the major protein component of high density lipoprotein (HDL) in the plasma. ApoA-I 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. 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.

REFERENCES

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8. Natarajan, P., et al. 2004. Identification of an apoA-I structural element that mediates cellular cholesterol efflux and stabilizes ATP binding cassette transporter A1. J. Biol. Chem. 279: 24044-24052.
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CHROMOSOMAL LOCATION

Genetic locus: APOA1 (human) mapping to 11q23.3.

PRODUCT

apoA-I (h): 293T Lysate represents a lysate of human apoA-I transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

apoA-I (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive apoA-I antibodies. Recommended use: 10-20 µl per lane.

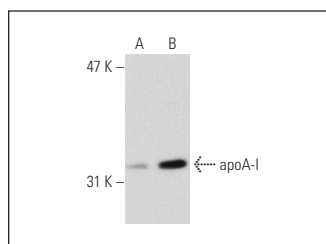
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

apoA-I (069-01): sc-58230 is recommended as a positive control antibody for Western Blot analysis of enhanced human apoA-I expression in apoA-I transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

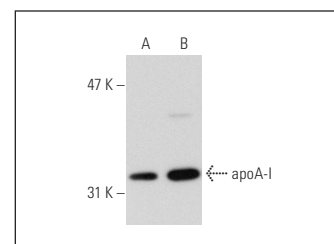
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



apoA-I (069-01): sc-58230. Western blot analysis of apoA-I expression in non-transfected: sc-117752 (A) and human apoA-I transfected: sc-111827 (B) 293T whole cell lysates.



apoA-I (12C8): sc-80551. Western blot analysis of apoA-I expression in non-transfected: sc-117752 (A) and human apoA-I transfected: sc-111827 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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