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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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apoA-V (m): 293T Lysate: sc-118482

BACKGROUND

Apolipoproteins are protein components of plasma lipoproteins. The human apoA-I gene, which maps to chromosome 11q23-q24, 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 cholesterol acyltransferase (LCAT), which is responsible for the formation of most plasma cholesterol esters. The human apoA-II gene maps to chromosome 1q21-q23 and encodes the second most abundant protein of HDL particles, where it influences plasma levels of free fatty acids (FFA). The human apoA-IV gene maps to chromosome 11q23 and 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 lecithin-cholesterol acyltransferase *in vitro*. The human apoA-V gene maps to chromosome 11q23.3 and encodes a 366 amino acid protein that is believed to be an important determinant of plasma triglyceride levels.

REFERENCES

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- Nazih, H., et al. 2001. Butyrate stimulates apoA-IV-containing lipoprotein secretion in differentiated Caco-2 cells: role in cholesterol efflux. *J. Cell. Biochem.* 83: 230-238.
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CHROMOSOMAL LOCATION

Genetic locus: ApoA5 (mouse) mapping to 9 A5.2.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

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

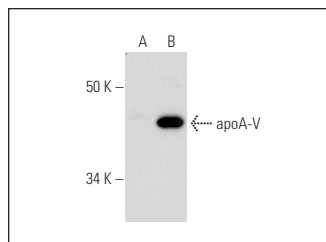
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

apoA-V (A-12): sc-393722 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse apoA-V expression in apoA-V transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

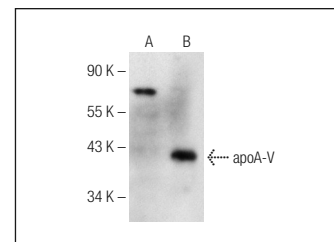
RECOMMENDED SUPPORT REAGENTS

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-V (A-12): sc-393722. Western blot analysis of apoA-V expression in non-transfected: sc-117752 (A) and mouse apoA-V transfected: sc-118482 (B) 293T whole cell lysates.



apoA-V (E-12): sc-373950. Western blot analysis of apoA-V expression in non-transfected: sc-117752 (A) and mouse apoA-V transfected: sc-118482 (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.