SANTA CRUZ BIOTECHNOLOGY, INC.

apoOL (m): 293T Lysate: sc-118495

BACKGROUND

Apolipoproteins are a family of fatty-acid binding proteins that transport fat through the bloodstream in the form of lipoproteins. ApoO functions to promote the transport of cholesterol from macrophage cells and may be involved in regulatory mechanisms that protect lipid accumulation within the heart. ApoO is present in high density lipoproteins (HDLs) and low density lipoproteins (LDLs), and is secreted by an MTP (microsomal triglyceride transfer protein)-dependent mechanism. ApoOL (apolipoprotein O-like), also known as FAM121A, is a 268 amino acid secreted protein belonging to the apolipoprotein O family and may be involved in cholesterol transport. ApoOL is encoded by a gene located on human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes.

REFERENCES

1. Bjorkegren, J., et al. 2001. Lipoprotein secretion and triglyceride stores in the heart. J. Biol. Chem. 276: 38511-38517.
2. van der Vliet, H.N., et al. 2001. Apolipoprotein A-V: a novel apolipoprotein associated with an early phase of liver regeneration. J. Biol. Chem. 276: 44512-44520.
3. Offer, T. and Samuni, A. 2002. Nitroxides inhibit peroxyl radical-mediated DNA scission and enzyme inactivation. Free Radic. Biol. Med. 32: 872-881.
4. Nielsen, L.B. 2002. Lipoprotein production by the heart: a novel pathway of triglyceride export from cardiomyocytes. Scand. J. Clin. Lab. Invest. Suppl. 237: 35-40.

CHROMOSOMAL LOCATION

Genetic locus: Apool (mouse) mapping to X E1.

PRODUCT

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

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.

APPLICATIONS

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

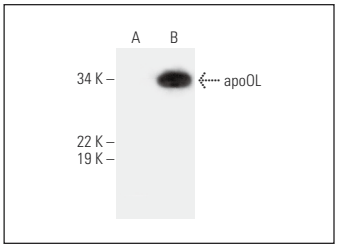
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

apoOL (G-6): sc-390958 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse apoOL expression in apoOL 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



apoOL (G-6): sc-390958. Western blot analysis of apoOL expression in non-transfected: sc-117752 (**A**) and mouse apoOL transfected: sc-118495 (**B**) 293T whole cell lysates.

RESEARCH USE

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