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Zuschläge

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LCAT (m): 293T Lysate: sc-121314

BACKGROUND

The lipase gene family belongs to one of the most robust genetic superfamilies found in living organisms, which includes esterases and thioesterases. Members of the AB hydrolase subfamily include hepatic lipase (HL), endothelial lipase (EL), lipoprotein lipase (LPL), pancreatic lipase (PL), gastric lipase (GL) and the lecithin-cholesterol acyltransferase (LCAT). These family members play a crucial role in the metabolism of lipids. LCAT esterifies cholesterol, which is required for cholesterol transport. LCAT deficiency has been implicated in fish-eye disease, a rare genetic disorder of high density lipoprotein (HDL) metabolism.

REFERENCES

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- Miida, T., Zhang, B., Obayashi, K., Seino, U., Zhu, Y., Ito, T., Nakamura, Y., Okada, M. and Saku, K. 2004. T13M mutation of lecithin-cholesterol acyltransferase gene causes fish-eye disease. *Clin. Chim. Acta* 343: 201-208.

CHROMOSOMAL LOCATION

Genetic locus: *Lcat* (mouse) mapping to 8 D3.

PRODUCT

LCAT (m): 293T Lysate represents a lysate of mouse LCAT transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

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

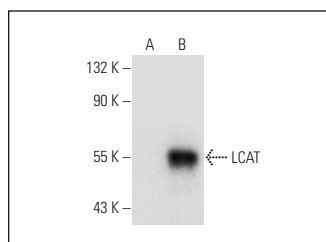
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LCAT (B-4): sc-398361 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse LCAT expression in LCAT 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



LCAT (B-4): sc-398361. Western blot analysis of LCAT expression in non-transfected: sc-117752 (A) and mouse LCAT transfected: sc-121314 (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.

RESEARCH USE

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

PROTOCOLS

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