

LYPLA2 (h3): 293T Lysate: sc-112779

BACKGROUND

The multifunctional lysophospholipids (detergent-like intermediates) found in various biological membranes are regulated by the enzymatic activity of lysophospholipases. Increased levels of lysophospholipids are associated with a host of diseases, including hyperlipidemia and atherosclerosis. LYPLA1 (lysophospholipase 1), also known as APT1 or LPL1, and LYPLA2 (lysophospholipase 2) are lysophospholipases that localize to the cytoplasm and belong to the AB hydrolase 2 family. Both LYPLA1 and LYPLA2 function to enzymatically hydrolyze fatty acids from S-acetylated cysteine residues on a variety of monomeric and micellar substrates, such as H-Ras. Due to their ability to catalytically regulate the overall concentration of lysophospholipids in cellular membranes, LYPLA1 and LYPLA2 may play a crucial role in the development of lysophospholipid-associated disorders. LYPLA1 and LYPLA2 exist as multiple alternatively spliced isoforms that are expressed in tissues throughout the body.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LYPLA2 (human) mapping to 1p36.11.

PRODUCT

LYPLA2 (h3): 293T Lysate represents a lysate of human LYPLA2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

LYPLA2 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive LYPLA2 antibodies. Recommended use: 10-20 µl per lane.

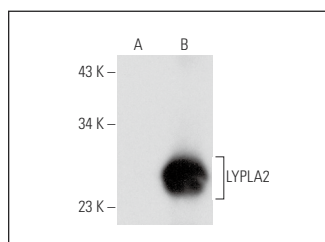
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LYPLA2 (B-11): sc-515061 is recommended as a positive control antibody for Western Blot analysis of enhanced human LYPLA2 expression in LYPLA2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

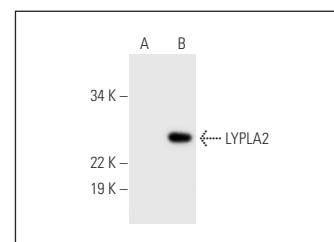
RECOMMENDED SUPPORT REAGENTS

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



LYPLA2 (B-11): sc-515061. Western blot analysis of LYPLA2 expression in non-transfected: sc-117752 (A) and human LYPLA2 transfected: sc-112779 (B) 293T cell lysates.



LYPLA2 (B-12): sc-390546. Western blot analysis of LYPLA2 expression in non-transfected: sc-117752 (A) and human LYPLA2 transfected: sc-112779 (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.