# LYPLA2 (G-13): sc-164938



The Boures to Overtion

# **BACKGROUND**

The multifunctional lysophospholipids (detergent-like intermediates) found in various biological membranes are regulated by the enzymatic activity of lysophospholipiases. 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; Lypla2 (mouse) mapping to 4 D3.

# **SOURCE**

LYPLA2 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LYPLA2 of human origin.

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-164938 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

LYPLA2 (G-13) is recommended for detection of LYPLA2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other LYPLA family members.

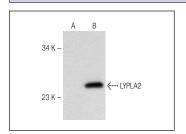
LYPLA2 (G-13) is also recommended for detection of LYPLA2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for LYPLA2 siRNA (h): sc-78672, LYPLA2 siRNA (m): sc-149181, LYPLA2 shRNA Plasmid (h): sc-78672-SH, LYPLA2 shRNA Plasmid (m): sc-149181-SH, LYPLA2 shRNA (h) Lentiviral Particles: sc-78672-V and LYPLA2 shRNA (m) Lentiviral Particles: sc-149181-V.

Molecular Weight of LYPLA2: 25 kDa.

Positive Controls: LYPLA2 (h): 293T Lysate: sc-112779.

# **DATA**



LYPLA2 (G-13): sc-164938. Western blot analysis of LYPLA2 expression in non-transfected: sc-117752 (A) and human LYPLA2 transfected: sc-112779 (B) 293T whole cell lysates.

# **RESEARCH USE**

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

#### **PROTOCOLS**

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



Try LYPLA2 (B-12): sc-390546 or LYPLA2 (B-11): sc-515061, our highly recommended monoclonal alternatives to LYPLA2 (G-13).

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