

# Endothelial Lipase (H-41): sc-99206

## 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 (EDL or EL), Lipoprotein Lipase (LPL), Pancreatic Lipase (PL), Gastric Lipase (GL) and LCAT. These family members play a crucial role in the metabolism of lipids. Defects in LPL may cause chylomicronemia syndrome or a form of lipoprotein lipase deficiency characterized by hypertriglyceridemia. Endothelial Lipase, which also is known as endothelial cell-derived lipase, has both triglyceride and phospholipase activity. This protein, which is synthesized in endothelial cells, can bind heparin. It is expressed primarily in placenta, liver, thyroid, kidney, lung, testis and ovary tissue.

## REFERENCES

1. Jaye, M., et al. 1999. A novel endo-thelial-derived lipase that modulates HDL metabolism. *Nat. Genet.* 21: 424-428.
2. McCoy, M.G., et al. 2002. Characterization of the lipolytic activity of Endothelial Lipase. *J. Lipid Res.* 43: 921-929.

## CHROMOSOMAL LOCATION

Genetic locus: LIPG (human) mapping to 18q21.1; Lipg (mouse) mapping to 18 E2.

## SOURCE

Endothelial Lipase (H-41) is a rabbit polyclonal antibody raised against amino acids 371-411 mapping near the C-terminus of Endothelial Lipase of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Endothelial Lipase (H-41) is recommended for detection of Endothelial Lipase 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).

Endothelial Lipase (H-41) is also recommended for detection of Endothelial Lipase in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Endothelial Lipase siRNA (h): sc-60581, Endothelial Lipase siRNA (m): sc-60582, Endothelial Lipase shRNA Plasmid (h): sc-60581-SH, Endothelial Lipase shRNA Plasmid (m): sc-60582-SH, Endothelial Lipase shRNA (h) Lentiviral Particles: sc-60581-V and Endothelial Lipase shRNA (m) Lentiviral Particles: sc-60582-V.

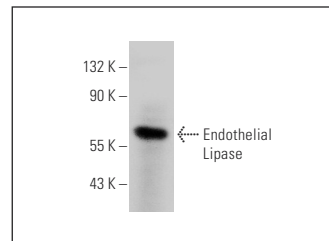
Molecular Weight of Endothelial Lipase: 55 kDa.

Positive Controls: mouse kidney extract: sc-2255.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Endothelial Lipase (H-41): sc-99206. Western blot analysis of Endothelial Lipase expression in mouse kidney tissue extract.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Endothelial Lipase (4A9): sc-517036**, our highly recommended monoclonal alternative to Endothelial Lipase (H-41).