

# Gastric Lipase (S-15): sc-50938

## BACKGROUND

The lipase gene family belongs to one of the most robust genetic superfamilies found in living organisms, which includes esterases and thioesterases. The AB hydrolase subfamily plays a crucial role in the metabolism of lipids. Members of this family include Hepatic Lipase (HL), Endothelial Lipase (EL), Lipoprotein Lipase (LPL), Pancreatic Lipase (PL), Gastric Lipase (GL), LCAT and Lysosomal Acid Lipase (LAL). Gastric Lipase is a 379 amino acid protein that is highly homologous to LAL and is involved in the digestion of dietary triglycerides in the gastrointestinal tract, especially in individuals with pancreatic lipase deficiencies. Gastric Lipase is secreted by the fundic mucosa of the stomach and, under acidic pH conditions, it hydrolyzes the ester bonds of triglycerides.

## REFERENCES

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2. Mu, H. and Porsgaard, T. 2005. The metabolism of structured triacylglycerols. *Prog. Lipid Res.* 44: 430-448.
3. Mattes, R.D. 2005. Fat taste and lipid metabolism in humans. *Physiol. Behav.* 86: 691-697.
4. Jain, D., et al. 2005. Composite glandular and endocrine tumors of the stomach with pancreatic acinar differentiation. *Am. J. Surg. Pathol.* 29: 1524-1529.
5. Carrière, F. and Laugier, R. 2005. Gastrointestinal lipolysis levels and potential use of Gastric Lipase in insufficiency. *Clin. Gastroenterol. Hepatol.* 3: 715-716.
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## CHROMOSOMAL LOCATION

Genetic locus: LIPF (human) mapping to 10q23.31; Lipf (mouse) mapping to 19 C1.

## SOURCE

Gastric Lipase (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Gastric 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.

Blocking peptide available for competition studies, sc-50938 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

Gastric Lipase (S-15) is recommended for detection of Gastric 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).

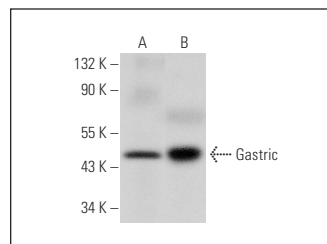
Gastric Lipase (S-15) is also recommended for detection of Gastric Lipase in additional species, including canine.

Suitable for use as control antibody for Gastric Lipase siRNA (h): sc-60673, Gastric Lipase siRNA (m): sc-60674, Gastric Lipase shRNA Plasmid (h): sc-60673-SH, Gastric Lipase shRNA Plasmid (m): sc-60674-SH, Gastric Lipase shRNA (h) Lentiviral Particles: sc-60673-V and Gastric Lipase shRNA (m) Lentiviral Particles: sc-60674-V.

Molecular Weight of Gastric Lipase: 43 kDa.

Positive Controls: human stomach extract: sc-363780 or rat stomach extract: sc-394508.

## DATA



Gastric Lipase (S-15): sc-50938. Western blot analysis of Gastric Lipase expression in rat stomach (A) and human stomach (B) tissue extracts.

## SELECT PRODUCT CITATIONS

1. Wang, J., et al. 2009. Differential gene expression in normal esophagus and Barrett's esophagus. *J. Gastroenterol.* 44: 897-911.

## 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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