



## PLB (G-18): sc-20512

### BACKGROUND

A variety of lipases, including acid lipase in lingual gland or stomach and pancreatic lipase, hydrolyze triacylglycerol to produce monoacylglycerols and free fatty acids in the gastrointestinal tract. A lipid-hydrolyzing enzyme, phospholipase B/lipase (PLB/LIP), associated with intestinal brush border membranes, displays broad lipolytic activities. The sequence of PLB consists of an NH<sub>2</sub>-signal peptide, four tandem repeats and a hydrophobic domain near the C-terminus. The second repeat is the catalytic domain, and the hydrophobic domain serves as a membrane anchor for PLB. PLB is an intestinal Ca<sup>2+</sup>-independent phospholipase that is highly expressed in the ileum and to a lesser extent in the esophagus and testis. PLB is localized in brush border membranes of the absorptive cells, Paneth cells and acrosomes of spermatid.

### REFERENCES

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### SOURCE

PLB (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLB of rat 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-20512 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

PLB (G-18) is recommended for detection of PLB of rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### 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.