

PLRP1 (D-15): sc-74847

BACKGROUND

Pancreatic lipase plays a major role in dietary lipid degradation by hydrolyzing triglycerides into diglycerides and subsequently into monoglycerides and free fatty acids. Pancreatic lipase-related protein 1 (PLRP1), also known as PNLIPRP1, is a 467 amino acid protein belonging to the AB hydrolase superfamily and the lipase family. PLRP1 has a 68% amino acid identity with Pancreatic Lipase and 18-34% identity with Gastric Lipase, Hepatic Lipase and LPL. As a secretory protein, PLRP1 is expressed solely in the pancreas. Although PLRP1 is suggested to play a role in lipid degradation, it may have a different substrate and cofactor requirements than Pancreatic Lipase. Three isoforms of PLRP1 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PNLIPRP1 (human) mapping to 10q25.3.

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.

SOURCE

PLRP1 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLRP1 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-74847 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLRP1 (D-15) is recommended for detection of PLRP1 of human 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).

PLRP1 (D-15) is also recommended for detection of PLRP1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for PLRP1 siRNA (h): sc-76172, PLRP1 shRNA Plasmid (h): sc-76172-SH and PLRP1 shRNA (h) Lentiviral Particles: sc-76172-V.

Molecular Weight of PLRP1: 52 kDa.

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.

PROTOCOLS

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