SANTA CRUZ BIOTECHNOLOGY, INC.

GPI-PLD (L-19): sc-9516

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Phosphatidylinositol-glycan-specific phospholipase D (GPI-PLD) is a high-density lipoprotein-associated protein found on chromosome 6p22 that specifically hydrolyzes the inositol phosphate linkage in proteins anchored by phosphatidylinositol-glycans (PI-Gs). GPI-PLD is found in serum, liver, cerebrospinal fluid and in milk. The majority of plasma GPI-PLD appears to be specifically associated with a small, discrete, and minor fraction of lipoproteins containing apoA-Iand apoA-IV. Serum GPI-PLD activity is reduced over 75% in systemic inflammatory response syndrome and the down-regulation of GPI-PLD could play an important role in the control of proinflammatory responses.

CHROMOSOMAL LOCATIONS

Genetic locus: GPLD1 (human) mapping to 6p22.3; Gpld1 (mouse) mapping to 13 A3.1.

SOURCE

GPI-PLD (L-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GPI-PLD 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-9516 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

GPI-PLD (L-19) is recommended for detection of GPI-PLD 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GPI-PLD (L-19) is also recommended for detection of GPI-PLD in additional species, including equine, canine and bovine.

Suitable for use as control antibody for GPI-PLD siRNA (h): sc-43811, GPI-PLD siRNA (m): sc-41625, GPI-PLD shRNA Plasmid (h): sc-43811-SH, GPI-PLD shRNA Plasmid (m): sc-41625-SH, GPI-PLD shRNA (h) Lentiviral Particles: sc-43811-V and GPI-PLD shRNA (m) Lentiviral Particles: sc-41625-V.

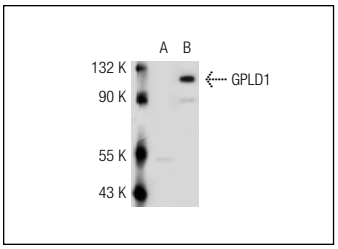
Molecular Weight of GPI-PLD: 110 kDa.

Positive Controls: GPI-PLD (m): 293T Lysate: sc-120582, Caki-1 cell lysate: sc-2224 or human plasma extract: sc-364374.

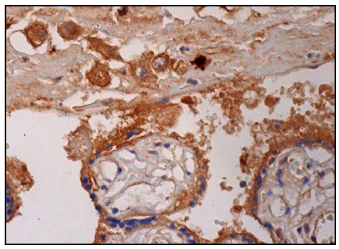
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



GPI-PLD (L-19): sc-9516. Western blot analysis of GPLD1 expression in non-transfected: sc-117752 (**A**) and mouse GPLD1 transfected: sc-120582 (**B**) 293T whole cell lysates.



GPI-PLD (L-19): sc-9516. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing cytoplasmic staining of trophoblastic cells and decidual cells.

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.

MONOS Satisfaction Guaranteed

Try **GPI-PLD (D-10): sc-365096** or **GPI-PLD (E-8): sc-365037**, our highly recommended monoclonal alternatives to GPI-PLD (L-19).