SANTA CRUZ BIOTECHNOLOGY, INC.

GPI-PLD (E-8): sc-365037



BACKGROUND

Phosphatidylinositol-glycan-specific phospholipase D (GPI-PLD) is a highdensity lipoprotein-associated protein found on chromosome 6p22.3 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-I and apoA-IV. Serum GPI-PLD activity is reduced over 75% in systemic inflammatory response syndrome and the downregulation of GPI-PLD could play an important role in the control of proinflammatory responses.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

GPI-PLD (E-8) is a mouse monoclonal antibody raised against a peptide mapping near the C-terminus of GPI-PLD of human origin.

PRODUCT

Each vial contains 200 μg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-365037 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

GPI-PLD (E-8) is recommended for detection of GPI-PLD of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

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 or Caki-1 cell lysate: sc-2224.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG K BP-HRP: sc-516102 or m-IgG K BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgG K BP-FITC: sc-516140 or m-IgG K BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



GPI-PLD expression in non-transfected: sc-117752 (A) and mouse GPI-PLD transfected: sc-120582 (B) 293T whole cell lysates.

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 for detailed protocols and support products.