

PLGLB2 (62.P): sc-130390

BACKGROUND

Cleavage of the serine proteinase plasminogen to form plasmin is the central event in the dissolution of blood clots by the fibrinolytic system. Within the fibrinolytic cascade, the serine proteinases urokinase-type plasminogen activator (uPA) and tissue-type plasminogen activator (tPA) activate the pro-enzyme plasminogen by cleaving plasminogen to form the fibrinolytically active enzyme plasmin. PLGLB2 (plasminogen-like B2), also known as PLGP1, is a 96 amino acid protein that resembles the N-terminal plasminogen activation peptide, which is released from plasminogen during conversion to plasmin. PLGLB2 may bind to lysine binding sites present in the kringle structures of plasminogen, an event that interferes with the binding of fibrin or α -2 antiplasmin to plasminogen and may result in the localization of activity at sites necessary for extracellular matrix destruction.

REFERENCES

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- Lewis, V.O., Gehrmann, M., Weissbach, L., Hyman, J.E., Rielly, A., Jones, D.G., Llinás, M. and Schaller, J. 1999. Homologous plasminogen N-terminal and plasminogen-related gene A and B peptides. Characterization of cDNAs and recombinant fusion proteins. *Eur. J. Biochem.* 259: 618-625.

CHROMOSOMAL LOCATION

Genetic locus: PLGLB2 (human) mapping to 2p11.2; Plg (mouse) mapping to 17 A1.

SOURCE

PLGLB2 (62.P) is a mouse monoclonal antibody raised against recombinant PLGLB2 of human origin.

PRODUCT

Each vial contains 50 μ g IgG₁ kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

PLGLB2 (62.P) is recommended for detection of PLGLB2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), 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); also recommended for detection of plasminogen in mouse and rat.

Suitable for use as control antibody for PLGLB2 siRNA (h): sc-106423, PLGLB2 shRNA Plasmid (h): sc-106423-SH and PLGLB2 shRNA (h) Lentiviral Particles: sc-106423-V.

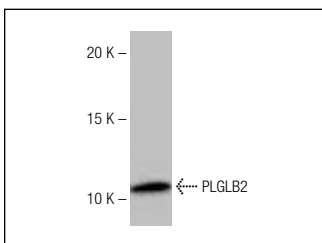
Molecular Weight of PLGLB2: 11 kDa.

Positive Controls: PC-12 cell lysate: sc-2250.

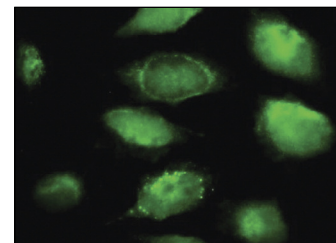
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ 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



PLGLB2 (62.P): sc-130390. Western blot analysis of PLGLB2 expression in PC-12 whole cell lysate.



PLGLB2 (62.P): sc-130390. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

STORAGE

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

PROTOCOLS

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