Serglycin (C-11): sc-374657



The Power to Overtin

BACKGROUND

Proteoglycans stored in the secretory granules of many hematopoietic cells contain a protease-resistant peptide core that may be important for neutralizing hydrolytic enzymes. Serglycin is associated with the macromolecular complex of granzymes and perforin, which may serve as a mediator of granule-mediated apoptosis. Serglycin is a chondroitin sulfate-bearing proteoglycan that functions in the transport of cationic granular proteins. The immune system relies on granule exocytosis as the main pathway for elimination of virusinfected cells and tumor cells by cytotoxic T lymphocytes and natural killer cells, thus indicating an important role for Serglycin in normal immune function.

CHROMOSOMAL LOCATION

Genetic locus: SRGN (human) mapping to 10q22.1; Srgn (mouse) mapping to 10 B4.

SOURCE

Serglycin (C-11) is a mouse monoclonal antibody raised against amino acids 1-158 representing full length Serglycin of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lgG_{2a}$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Serglycin (C-11) is available conjugated to agarose (sc-374657 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374657 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374657 PE), fluorescein (sc-374657 FITC), Alexa Fluor® 488 (sc-374657 AF488), Alexa Fluor® 546 (sc-374657 AF546), Alexa Fluor® 594 (sc-374657 AF594) or Alexa Fluor® 647 (sc-374657 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374657 AF680) or Alexa Fluor® 790 (sc-374657 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Serglycin (C-11) is recommended for detection of precursor and mature Serglycin 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), 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).

Suitable for use as control antibody for Serglycin siRNA (h): sc-44093, Serglycin siRNA (m): sc-153346, Serglycin shRNA Plasmid (h): sc-44093-SH, Serglycin shRNA Plasmid (m): sc-153346-SH, Serglycin shRNA (h) Lentiviral Particles: sc-44093-V and Serglycin shRNA (m) Lentiviral Particles: sc-153346-V.

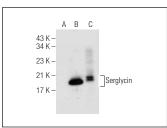
Molecular Weight of Serglycin isoforms: 22/24 kDa.

Positive Controls: Serglycin (h): 293 Lysate: sc-113121, HL-60 whole cell lysate: sc-2209 or THP-1 cell lysate: sc-2238.

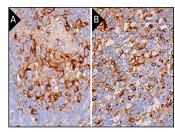
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ 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-lgG κ BP-FITC: sc-516140 or m-lgG 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. 4) Immunohistochemistry: use m-lgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA







Serglycin (C-11): sc-374657. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of subset of cells in white pulp and cells in red pulp (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing cytoplasmic staining of lymphoid cells (B).

SELECT PRODUCT CITATIONS

- 1. He, Y., et al. 2021. Serglycin induces osteoclastogenesis and promotes tumor growth in giant cell tumor of bone. Cell Death Dis. 12: 868.
- 2. Du, Q., et al. 2022. miR-26b-5p suppresses chemoresistance in breast cancer by targeting Serglycin. Anticancer Drugs 33: 308-319.

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.

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