

SCLIP (E-14): sc-85905

BACKGROUND

SCLIP (Stathmin-3), also known as SCG10-like protein, is a 180 amino acid neuronal specific protein which belongs to the Stathmin protein family. Stathmin family members are phosphoproteins expressed in the cytoplasm which function to regulate microtubule dynamics. Stathmin complexes with tubulin dimers to sequester tubulin and promote microtubule disassembly. Phosphorylation of stathmin proteins weakens stathmin-tubulin complexes and promotes microtubule assembly. Mitotic spindle assembly during cell division requires phosphorylation of stathmin proteins. The cell cycle is arrested when stathmin-tubulin complexes are present. Non-functional stathmin family members are oncoproteins that are responsible for uncontrolled cell proliferation. SCLIP is encoded by a gene, STMN3, that maps to human chromosome 20.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STMN3 (human) mapping to 20q13.33; Stmn3 (mouse) mapping to 2 H4.

SOURCE

SCLIP (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SCLIP 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-85905 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SCLIP (E-14) is recommended for detection of SCLIP of mouse, rat and 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).

Suitable for use as control antibody for SCLIP siRNA (h): sc-76459, SCLIP siRNA (m): sc-153258, SCLIP shRNA Plasmid (h): sc-76459-SH, SCLIP shRNA Plasmid (m): sc-153258-SH, SCLIP shRNA (h) Lentiviral Particles: sc-76459-V and SCLIP shRNA (m) Lentiviral Particles: sc-153258-V.

Molecular Weight of SCLIP: 21 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.

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 or our catalog for detailed protocols and support products.