SANTA CRUZ BIOTECHNOLOGY, INC.

SI-CLP (N-16): sc-244131

BACKGROUND

SI-CLP (stabilin-1 interacting chitinase-like), also known as CHID1 (chitinase domain-containing protein 1), is a 393 amino acid secreted protein that belongs to the glycosyl hydrolase 18 family. SI-CLP interacts with STAB1 and localizes to lysosome in cells of monocytic, T, B and epithelial origin. SI-CLP is a Saccharide- and LPS-binding protein with possible roles in pathogen sensing and endotoxin neutralization. Ligand-binding specificity relates to the length of the oligosaccharides, with preference for chitotetraose *(in vitro)*. The SI-CLP protein is up-regulated by IL4/interleukin-4 and dexamethasone in the macrophages, and is also up-regulated by glucocorticoid. Existing as three alternatively spliced isoforms, the SI-CLP gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, fruit fly, mosquito, *A. thaliana* and rice, and maps to human chromosome 11p15.5.

CHROMOSOMAL LOCATION

Genetic locus: CHID1 (human) mapping to 11p15.5; Chid1 (mouse) mapping to 7 F5.

SOURCE

SI-CLP (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SI-CLP 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-244131 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

SI-CLP (N-16) is recommended for detection of SI-CLP 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SI-CLP (N-16) is also recommended for detection of SI-CLP in additional species, including equine.

Suitable for use as control antibody for SI-CLP siRNA (h): sc-96646, SI-CLP siRNA (m): sc-153457, SI-CLP shRNA Plasmid (h): sc-96646-SH, SI-CLP shRNA Plasmid (m): sc-153457-SH, SI-CLP shRNA (h) Lentiviral Particles: sc-96646-V and SI-CLP shRNA (m) Lentiviral Particles: sc-153457-V.

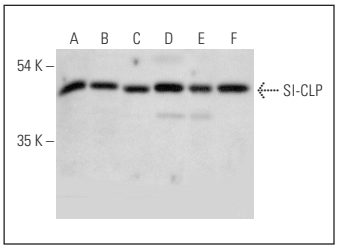
Molecular Weight of SI-CLP Isoforms 1/2/3: 45/48/42 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or mouse liver extract: sc-2256.

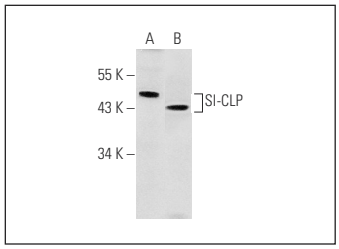
RECOMMENDED SECONDARY REAGENTS

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.

DATA



SI-CLP (N-16): sc-244131. Western blot analysis of SI-CLP expression in Jurkat (**A**), HeLa (**B**), RT-4 (**C**), U-251-MG (**D**), Hep G2 (**E**) and MOLT-4 (**F**) whole cell lysates.



SI-CLP (N-16): sc-244131. Western blot analysis of SI-CLP expression in Jurkat whole cell lysate (**A**) and mouse liver tissue extract (**B**).

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.