

CILP (H-199): sc-134540

BACKGROUND

Cartilage intermediate layer protein (CILP), an extracellular matrix protein, shows abundant expression in cartilagenous tissues. CILP is expressed as two isoforms, CILP and CILP-2, which are differentially expressed by chondrocytes and induced by TGF β 1. This induction is mediated by Smad3 through direct interactions with *cis*-elements in the CILP promoter region. TGF β also induces elevated chondrocyte extracellular inorganic pyrophosphate (PPI), which promotes the deposition of calcium pyrophosphate dihydrate crystals. The CILP isoforms have been implicated in common musculoskeletal disorders, including osteoarthritis, rheumatoid arthritis and lumbar disc disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CILP (human) mapping to 15q22.31; CILP (mouse) mapping to 9 C.

SOURCE

CILP (H-199) is a rabbit polyclonal antibody raised against amino acids 132-330 mapping near the N-terminus of CILP of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CILP (H-199) is recommended for detection of CILP 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CILP (H-199) is also recommended for detection of CILP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CILP siRNA (h): sc-60384, CILP siRNA (m): sc-60385, CILP shRNA Plasmid (h): sc-60384-SH, CILP shRNA Plasmid (m): sc-60385-SH, CILP shRNA (h) Lentiviral Particles: sc-60384-V and CILP shRNA (m) Lentiviral Particles: sc-60385-V.

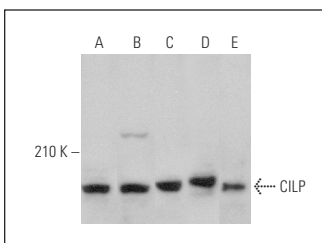
Molecular Weight of CILP: 133 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, U-698-M whole cell lysate: sc-364799 or SJRH30 cell lysate: sc-2287.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



CILP (H-199) : sc-134540. Western blot analysis of CILP expression in U-698-M (A), SJRH30 (B), OVCAR-3 (C) and K-562 (D) whole cell lysates and mouse skeletal muscle tissue extract (E).

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.