

HAPLN1 (H-93): sc-135184

BACKGROUND

The human cartilage link protein, also designated HAPLN1, is a member of the hyaluronan and proteoglycan link protein (HAPLN) family of proteins. This family contains 4 proteins with approximately 50% homology. The human cartilage link protein strengthens tissue architecture by using hyaluronic acid to stabilize the aggregates of proteoglycan monomers inside the extracellular cartilage matrix. It is widely expressed in most tissue types except brain tissue where, much like the other human cartilage link protein genes, it is weakly expressed. The HAPLN and the brain-specific CSPG genes, as well as other members of the link module superfamily, appear to have a common ancestral gene origin.

REFERENCES

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- Czipri, M., et al. 2003. Genetic rescue of chondrodysplasia and the perinatal lethal effect of cartilage link protein deficiency. *J. Biol. Chem.* 278: 39214-39223.
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CHROMOSOMAL LOCATION

Genetic locus: HAPLN1 (human) mapping to 5q14.3; Hapln1 (mouse) mapping to 13 C3.

SOURCE

HAPLN1 (H-93) is a rabbit polyclonal antibody raised against amino acids 16-108 mapping near the N-terminus of HAPLN1 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.

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.

APPLICATIONS

HAPLN1 (H-93) is recommended for detection of HAPLN1 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).

HAPLN1 (H-93) is also recommended for detection of HAPLN1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HAPLN1 siRNA (h): sc-60094, HAPLN1 siRNA (m): sc-60095, HAPLN1 shRNA Plasmid (h): sc-60094-SH, HAPLN1 shRNA Plasmid (m): sc-60095-SH, HAPLN1 shRNA (h) Lentiviral Particles: sc-60094-V and HAPLN1 shRNA (m) Lentiviral Particles: sc-60095-V.

Molecular Weight of HAPLN1: 40-42 kDa.

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.

PROTOCOLS

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