

HAPLN4 (H-73): sc-135194

BACKGROUND

HAPLN4 (hyaluronan and proteoglycan link protein 4) is a 360 amino acid protein encoded by the human gene HAPLN4. HAPLN4 belongs to the HAPLN family and contains one Ig-like C2-type (immunoglobulin-like) domain and two link domains. HAPLN4 mediates the binding of complexes containing hyaluronic acid. HAPLN2 mediates a firm binding of versican V2 to hyaluronic acid. HAPLN4 is believed to play a pivotal role in the formation of the hyaluronan-associated matrix in the central nervous system (CNS), which facilitates neuronal conduction and general structural stabilization. HAPLN4 may also be involved in the formation of extracellular matrices contributing to perineuronal nets and facilitate the understanding of a functional role of these extracellular matrices. HAPLN4 is widely expressed with highest levels in spleen and placenta.

REFERENCES

1. Deyst, K.A. and Toole, B.P. 1996. Production of hyaluronan-dependent pericellular matrix by embryonic rat glial cells. *Brain Res. Dev. Brain Res.* 88: 122-125.
2. Hirakawa, S., et al. 2000. The brain link protein-1 (Bral1): cDNA cloning, genomic structure, and characterization as a novel link protein expressed in adult brain. *Biochem. Biophys. Res. Commun.* 276: 982-989.

CHROMOSOMAL LOCATION

Genetic locus: HAPLN4 (human) mapping to 19p13.11; Hapln4 (mouse) mapping to 8 B3.3.

SOURCE

HAPLN4 (H-73) is a rabbit polyclonal antibody raised against amino acids 328-400 mapping near the C-terminus of HAPLN4 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.

APPLICATIONS

HAPLN4 (H-73) is recommended for detection of HAPLN4 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).

HAPLN4 (H-73) is also recommended for detection of HAPLN4 in additional species, including bovine.

Suitable for use as control antibody for HAPLN4 siRNA (h): sc-62441, HAPLN4 siRNA (m): sc-62442, HAPLN4 shRNA Plasmid (h): sc-62441-SH, HAPLN4 shRNA Plasmid (m): sc-62442-SH, HAPLN4 shRNA (h) Lentiviral Particles: sc-62441-V and HAPLN4 shRNA (m) Lentiviral Particles: sc-62442-V.

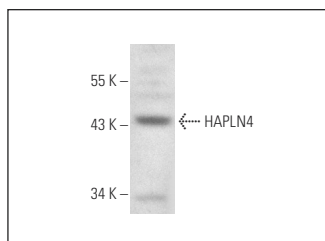
Molecular Weight of HAPLN4: 42 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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



HAPLN4 (H-73): sc-135194. Western blot analysis of HAPLN4 expression in HeLa whole cell lysate.

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.

MONOS
Satisfaction
Guaranteed

Try **HAPLN4 (H-6): sc-271450**, our highly recommended monoclonal alternative to HAPLN4 (H-73).