

HAPLN2 (H-76): sc-135192

BACKGROUND

HAPLN2 (hyaluronan and proteoglycan link protein 2, brain link protein 1) is a 340 amino acid protein encoded by the human gene HAPLN2. HAPLN2 belongs to the HAPLN family and contains one Ig-like V-type (immunoglobulin-like) domain and two link domains. HAPLN2 mediates a firm binding of versican V2 to hyaluronic acid. HAPLN2 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. HAPLN2 also may be involved in the formation of extracellular matrix contributing to perineuronal nets and facilitate the understanding of a functional role of these extracellular matrices. HAPLN2 is found in several nuclei throughout the midbrain and hindbrain in a perineuronal net pattern.

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: HAPLN2 (human) mapping to 1q23.1; Hapln2 (mouse) mapping to 3 F1.

SOURCE

HAPLN2 (H-76) is a rabbit polyclonal antibody raised against amino acids 26-101 mapping within an internal region of HAPLN2 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

HAPLN2 (H-76) is recommended for detection of HAPLN2 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).

HAPLN2 (H-76) is also recommended for detection of HAPLN2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HAPLN2 siRNA (h): sc-62437, HAPLN2 siRNA (m): sc-62438, HAPLN2 shRNA Plasmid (h): sc-62437-SH, HAPLN2 shRNA Plasmid (m): sc-62438-SH, HAPLN2 shRNA (h) Lentiviral Particles: sc-62437-V and HAPLN2 shRNA (m) Lentiviral Particles: sc-62438-V.

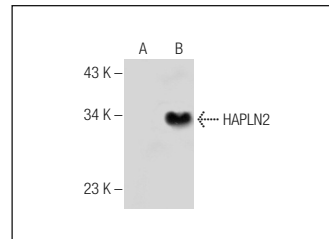
Molecular Weight of HAPLN2: 38 kDa.

Positive Controls: HAPLN2 (h): 293T Lysate: sc-114486.

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



HAPLN2 (H-76): sc-135192. Western blot analysis of HAPLN2 expression in non-transfected: sc-117752 (A) and human HAPLN2 transfected: sc-114486 (B) 293T whole cell lysates.

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.



Try **HAPLN2 (F-7): sc-376797**, our highly recommended monoclonal alternative to HAPLN2 (H-76).