SANTA CRUZ BIOTECHNOLOGY, INC.

HAPLN2 (h): 293T Lysate: sc-114486

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 immunoglobulin (Ig)-like, V-type 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 may also be involved in the formation of extracellular matrices, contributing to perineuronal nets and facilitating 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., et al. 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.
3. Oohashi, T., et al. 2002. Bral1, a brain-specific link protein, colocalizing with the versican V2 isoform at the nodes of Ranvier in developing and adult mouse central nervous systems. Mol. Cell. Neurosci. 19: 43-57.
4. Nomoto, H., et al. 2002. Human BRAL1 and BCAN genes that belong to the link-module superfamily are tandemly arranged on chromosome 1q21-23. Acta Med. Okayama 56: 25-29.
5. Bekku, Y., et al. 2003. Molecular cloning of Bral2, a novel brain-specific link protein, and immunohistochemical colocalization with brevican in perineuronal nets. Mol. Cell. Neurosci. 24: 148-159.
6. Spicer, A.P., et al. 2003. A hyaluronan binding link protein gene family whose members are physically linked adjacent to chondroitin sulfate proteoglycan core protein genes: the missing links. J. Biol. Chem. 278: 21083-21091.
7. Oohashi, T., et al. 2004. BRAL1, BRAL2: the novel brain specific-hyaluronan and protoglycan link protein genes. Tanpakushitsu Kakusan Koso 49: 2354-2361.

CHROMOSOMAL LOCATION

Genetic locus: HAPLN2 (human) mapping to 1q23.1.

PRODUCT

HAPLN2 (h): 293T Lysate represents a lysate of human HAPLN2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

HAPLN2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HAPLN2 antibodies. Recommended use: 10-20 µl per lane.

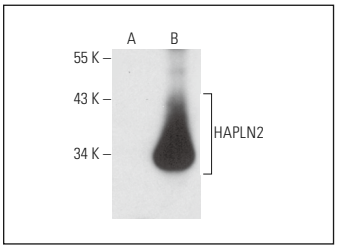
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-tranfected 293T cells.

HAPLN2 (F-7): sc-376797 is recommended as a positive control antibody for Western Blot analysis of enhanced human HAPLN2 expression in HAPLN2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

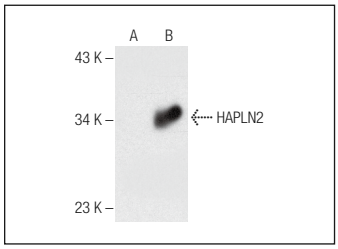
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



HAPLN2 (F-7): sc-376797. Western blot analysis of HAPLN2 expression in non-transfected: sc-117752 (**A**) and human HAPLN2 transfected: sc-114486 (**B**) 293T whole cell lysates.



HAPLN2 (F-7): sc-376797. Western blot analysis of HAPLN2 expression in non-transfected: sc-117752 (**A**) and human HAPLN2 transfected: sc-114486 (**B**) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.