

HAPLN3 (F-3): sc-377480

BACKGROUND

HAPLN3 (hyaluronan and proteoglycan link protein 3) is a 360 amino acid protein encoded by the human gene HAPLN3. HAPLN3 belongs to the HAPLN family and contains one Ig-like V-type (immunoglobulin-like) domain and two Link domains. HAPLN3 mediates the binding of complexes containing hyaluronic acid. May 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. HAPLN3 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. HAPLN3 is widely expressed with highest levels in spleen and placenta.

REFERENCES

1. Evanko, S.P., et al. 1999. Formation of hyaluronan- and versican-rich pericellular matrix is required for proliferation and migration of vascular smooth muscle cells. *Arterioscler. Thromb. Vasc. Biol.* 19: 1004-1013.
2. Clark, H.F., et al. 2003. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. *Genome Res.* 13: 2265-2270.
3. Spicer, A.P. and Joo, A. 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.
4. 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.
5. Ogawa, H., et al. 2004. Lp3/HAPLN3, a novel link protein that co-localizes with versican and is coordinately up-regulated by platelet-derived growth factor in arterial smooth muscle cells. *Matrix Biol.* 23: 287-298.

CHROMOSOMAL LOCATION

Genetic locus: HAPLN3 (human) mapping to 15q26.1.

SOURCE

HAPLN3 (F-3) is a mouse monoclonal antibody raised against amino acids 74-118 mapping within an internal region of HAPLN3 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HAPLN3 (F-3) is available conjugated to agarose (sc-377480 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377480 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377480 PE), fluorescein (sc-377480 FITC), Alexa Fluor® 488 (sc-377480 AF488), Alexa Fluor® 546 (sc-377480 AF546), Alexa Fluor® 594 (sc-377480 AF594) or Alexa Fluor® 647 (sc-377480 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377480 AF680) or Alexa Fluor® 790 (sc-377480 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

HAPLN3 (F-3) is recommended for detection of HAPLN3 of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for HAPLN3 siRNA (h): sc-62439, HAPLN3 shRNA Plasmid (h): sc-62439-SH and HAPLN3 shRNA (h) Lentiviral Particles: sc-62439-V.

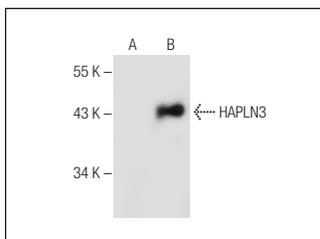
Molecular Weight of HAPLN3: 41 kDa.

Positive Controls: HAPLN3 (h): 293T Lysate: sc-370829.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



HAPLN3 (F-3): sc-377480. Western blot analysis of HAPLN3 expression in non-transfected: sc-117752 (A) and human HAPLN3 transfected: sc-370829 (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 for detailed protocols and support products.

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