SANTA CRUZ BIOTECHNOLOGY, INC.

Tenascin-X (H-10): sc-166456



BACKGROUND

The Tenascin family of extracellular matrix proteins includes Tenascin (also known as cytotactin or Tenascin-C), Tenascin-R (also designated restrictin or janusin) and Tenascin-X. Tenascin proteins function as substrate-adhesion molecules (SAMs) and are involved in regulating numerous developmental processes, such as morphogenetic cell migration and organogenesis. The Tenascin family proteins arise from various splicing events in the region of coding for FNIII repeats. Tenascin and Tenascin-X are expressed in several tissues during embryogenesis, and in adult tissues undergoing active remodeling, such as healing wounds and tumors. Tenascin-R (TN-R) is expressed on the surface of neurons and glial cells.

REFERENCES

- Jung, M., Pesheva, P., Schachner, M. and Trotter, J. 1993. Astrocytes and neurons regulate the expression of the neural recognition molecule janusin by cultured oligodendrocytes. Glia 9: 163-175.
- Schachner, M., Taylor, J., Bartsch, U. and Pesheva, P. 1994. The perplexing multifunctionality of janusin, a tenascin-related molecule. Perspect. Dev. Neurobiol. 2: 33-41
- Chiquet-Ehrismann, R. 1995. Tenascins, a growing family of extracellular matrix proteins. Experientia 51: 853-862.
- Elefteriou, F., Exposito, J.Y., Garrone, R. and Lethias, C. 1997. Characterization of the bovine tenascin-X. J. Biol. Chem. 272: 22866-22874.
- 5. Faissner, A. 1997. The Tenascin gene family in axon growth and guidance. Cell Tissue Res. 290: 331-341.
- Srinivasan, J., Schachner, M. and Catterall, W.A. 1998. Interaction of voltage-gated sodium channels with the extracellular matrix molecules tenascin-C and tenascin-R. Proc. Natl. Acad. Sci. USA 95: 15753-15757.

CHROMOSOMAL LOCATION

Genetic locus: TNXB (human) mapping to 6p21.33.

SOURCE

Tenascin-X (H-10) is a mouse monoclonal antibody raised against amino acids 3881-3970 mapping within an internal region of Tenascin-X of human origin.

PRODUCT

Each vial contains 200 μg lgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Tenascin-X (H-10) is available conjugated to agarose (sc-166456 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166456 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166456 PE), fluorescein (sc-166456 FITC), Alexa Fluor[®] 488 (sc-166456 AF488), Alexa Fluor[®] 546 (sc-166456 AF546), Alexa Fluor[®] 594 (sc-166456 AF594) or Alexa Fluor[®] 647 (sc-166456 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-166456 AF680) or Alexa Fluor[®] 790 (sc-166456 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

Tenascin-X (H-10) is recommended for detection of Tenascin-X of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for Tenascin-X siRNA (h): sc-43188, Tenascin-X shRNA Plasmid (h): sc-43188-SH and Tenascin-X shRNA (h) Lentiviral Particles: sc-43188-V.

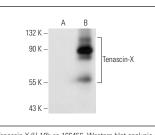
Molecular Weight of Tenascin-X isoforms: 500/220/80 kDa.

Positive Controls: Tenascin-X (h): 293T Lysate: sc-115036.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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-IgG κ BP-FITC: sc-516140 or m-IgG κ 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



Tenascin-X (H-10): sc-166456. Western blot analysis of Tenascin-X expression in non-transfected: sc-117752 (**A**) and human Tenascin-X transfected: sc-115036 (**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.