

# Tenascin-X (C-13): sc-5498

## 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., et al. 1993. Astrocytes and neurons regulate the expression of the neural recognition molecule Janusin by cultured oligodendrocytes. *Glia* 9: 163-175.
- Schachner, M., et al. 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., et al. 1997. Characterization of the bovine Tenascin-X. *J. Biol. Chem.* 272: 22866-22874.
- Faissner, A. 1997. The Tenascin gene family in axon growth and guidance. *Cell Tissue Res.* 290: 331-341.
- Srinivasan, J., et al. 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; Tnxb (mouse) mapping to 17 B1.

## SOURCE

Tenascin-X (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Tenascin-X 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.

Blocking peptide available for competition studies, sc-5498 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

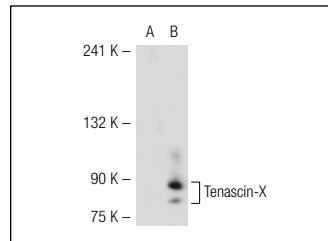
Tenascin-X (C-13) is recommended for detection of Tenascin-X of mouse and human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Tenascin-X siRNA (h): sc-43188, Tenascin-X siRNA (m): sc-43189, Tenascin-X shRNA Plasmid (h): sc-43188-SH, Tenascin-X shRNA Plasmid (m): sc-43189-SH, Tenascin-X shRNA (h) Lentiviral Particles: sc-43188-V and Tenascin-X shRNA (m) Lentiviral Particles: sc-43189-V.

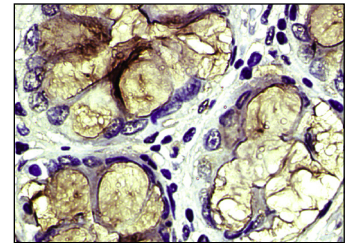
Molecular Weight of Tenascin-X isoforms: 500/220/80 kDa.

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

## DATA



Tenascin-X (C-13): sc-5498. 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.



Tenascin-X (C-13): sc-5498. Immunoperoxidase staining of formalin fixed, paraffin-embedded human colon tissue showing extracellular localization.

## SELECT PRODUCT CITATIONS

- Sato, I., et al. 2003. Distribution of Tenascin-C and -X in rat TMJ development. *Okajimas Folia Anat. Jpn.* 80: 57-62.
- Meyer-Siegler, K.L. and Vera, P.L. 2005. Substance P induced changes in CD74 and CD44 in the rat bladder. *J. Urol.* 173: 615-620.
- Sato, I., et al. 2006. Distribution of Tenascin-C and Tenascin-X, apoptotic and proliferating cells in postnatal soft-diet rat temporomandibular joint (TMJ). *Ann. Anat.* 188: 127-136.
- Imura, K. and Sato, I. 2008. Novel localization of Tenascin-X in adult mouse leptomeninges and choroid plexus. *Ann. Anat.* 190: 324-328.
- Imura, K. and Sato, I. 2009. Identification of the novel localization of tenascinX in the monkey choroid plexus and comparison with the mouse. *Eur. J. Histochem.* 53: 225-231.


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Try **Tenascin-X (H-10): sc-166456** or **Tenascin-X (F-11): sc-271594**, our highly recommended monoclonal alternatives to Tenascin-X (C-13).