

Tenascin-X (H-90): sc-25717

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

1. Jung, M., et al. 1993. Astrocytes and neurons regulate the expression of the neural recognition molecule janusin by cultured oligodendrocytes. *Glia* 9: 163-175.
2. Schachner, M., et al. 1994. The perplexing multifunctionality of janusin, a Tenascin-related molecule. *Perspect. Dev. Neurobiol.* 2: 33-41.

CHROMOSOMAL LOCATION

Genetic locus: TNXB (human) mapping to 6p21.33; Tnxb (mouse) mapping to 17 B1.

SOURCE

Tenascin-X (H-90) is a rabbit polyclonal antibody raised against amino acids 3881-3970 mapping within an internal region 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.

APPLICATIONS

Tenascin-X (H-90) is recommended for detection of Tenascin-X 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), 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).

Tenascin-X (H-90) is also recommended for detection of Tenascin-X in additional species, including porcine.

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.

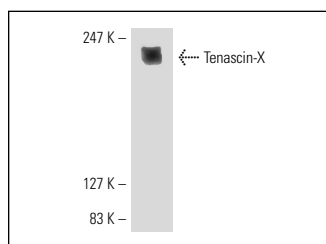
Molecular Weight of Tenascin-X isoforms: 500/220/80 kDa.

Positive Controls: rat skeletal muscle extract: sc-364810.

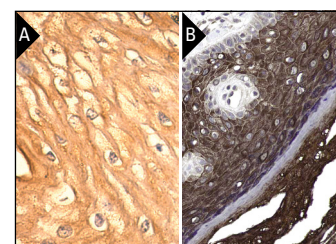
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Tenascin-X (H-90): sc-25717. Western blot analysis of Tenascin-X expression in rat skeletal muscle tissue extract.



Tenascin-X (H-90): sc-25717. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gastric carcinoma tissue showing extracellular matrix localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of epidermal and adnexal cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).

SELECT PRODUCT CITATIONS

1. Turtoi, A., et al. 2011. Identification of novel accessible proteins bearing diagnostic and therapeutic potential in human pancreatic ductal adenocarcinoma. *J. Proteome Res.* 10: 4302-4313.
2. Stegemann, C., et al. 2013. Proteomic identification of matrix metalloproteinase substrates in the human vasculature. *Circ. Cardiovasc. Genet.* 6: 106-117.

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.



Try **Tenascin-X (H-10): sc-166456** or **Tenascin-X (F-11): sc-271594**, our highly recommended monoclonal alternatives to Tenascin-X (H-90).