BACKGROUND

The Tenascin family of extracellular matrix proteins includes Tenasin (also known as cytotactin or Tenasin-C), Tenascin-R (also designated restrictin or janusin) and Tenascin-X. Tenasin proteins function as substrate-adhesion molecules (SAMs) and are involved in regulating numerous developmental processes, such as morphogenetic cell migration and organogenesis. The Tenasin family proteins arise from various splicing events in the region of coding for FNIII repeats. Tenasin 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


CHROMOSOMAL LOCATION

Genetic locus: TNXB (human) mapping to 6p21.3; Tnxb (mouse) mapping to 17 B1.

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 IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Tenascin-X (H-10) is recommended for detection of Tenascin-X of mouse, rat and 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).


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

Positive Controls: Tenascin-X (h): 293T Lysate: sc-115036 or rat skeletal muscle tissue extract.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2033, Western Blotting Luminol Reagent: sc-2044, 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

3) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA

RESEARCH USE

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