**BACKGROUND**

The Tenascin family of extracellular matrix proteins includes Tenasin (also designated cytotactin or Tenasin-C), Tenascin-R (also designated Restrictin or Janusin) and Tenasin-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. Tenasin and Tenasin-X are expressed in several tissues during embryogenesis, and in adult tissues undergoing active remodeling such as healing wounds and tumors. Tenasin-R (TN-R) is expressed on the surface of neurons and glial cells.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TNR (human) mapping to 1q25.1; Tnr (mouse) mapping to 1H1.

**SOURCE**

Tenasin-R (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Tenasin-R 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-9875 P. (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

Tenascin-R (E-18) is recommended for detection of Tenascin-R 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-R (E-18) is also recommended for detection of Tenascin-R in additional species, including equine, canine, bovine, porcine and avian.


Molecular Weight of Tenasin-R isoforms: 160/180 kDa.

Positive Controls: T98G cell lysate: sc-2294, U-87 MG cell lysate: sc-2411 or rat brain extract: sc-2392.

**DATA**

Tenascin-R (E-18) sc-9875. Western blot analysis of Tenascin-R expression in T98G (A) and U-87 MG (B) whole cell lysates.

Tenascin-R (E-18) sc-9875. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse brain tissue showing extracellular localization.

**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 or our catalog for detailed protocols and support products.

Try Tenasin-R (A-2): sc-376341 or Tenasin-R (9): sc-136098, our highly recommended monoclonal alternatives to Tenasin-R (E-18).