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Certificate of Analysis and Data Sheet

# NATIVE HUMAN TENASCIN C

| ***Catalog No.*** | ***Species*** | ***Source*** |
|---|---|---|
| DS-01-0412 | Human | overproducing glioblastoma line (U251) |

## *Description*

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.

## *Applications*

**Table Summary of protein applications and working conditions**

| Options / Functions | YES | NO | Not determined | Recommended Work dilution or concentration |
|---|---|---|---|---|
| ELISA | • | | | |
| Western Blotting | | | • | |
| Immunofluorence staining | | | • | |
| Neutralization | | | • | |

**Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.**

## *Molecular Weight*

250 kD by SDS analysis, the protein migrates at around 280-300 kDa.

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**Not for diagnostic or therapeutic use.**

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## *Preparation*

Precipitated, concentrated and dialysed. The product's final concentration is 0.1mg/ml.

## *Physical Appearance & Formulation*

Sterile liquid

## *Specificity*

Plays an active role in the development of the CNS and mesenchymal derived organs. Present in adult tumour vasculature and has functions in cell adhesion.

## *Purity*

SDS PAGE: >97%

## *Stability*

Store at -20°C only. Shipped at 4°C
**Please avoid freeze-thaw cycles.**

## *Reference*

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

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