



Rabbit Anti-Tenascin R antibody

SL11068R

Product Name:	Tenascin R
Chinese Name:	腱glycoproteinR抗体
Alias:	Janusin; Restrictin; TenascinR; Tenascin-R; Tenascin R (restrictin, janusin); Tenascin-R; TENR HUMAN; TN-R; Tnr; TNR; TENR; MGC149328.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	146kDa
Cellular localization:	Extracellular matrixSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TNR/Tenascin-R:1021-1120/1358
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Tenascin family of extracellular matrix proteins includes Tenascin (also designated 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.

Function:

Neural extracellular matrix (ECM) protein involved in interactions with different cells and matrix components. These interactions can influence cellular behavior by either evoking a stable adhesion and differentiation, or repulsion and inhibition of neurite growth. Binding to cell surface gangliosides inhibits RGD-dependent integrin-mediated cell adhesion and results in an inhibition of PTK2 (FAK) phosphorylation and cell detachment. Binding to membrane surface sulfatides results in a oligodendrocyte adhesion and differentiation. Interaction with CNTN1 induces a repulsion of neurons and an inhibition of neurite outgrowth. Interacts with SCN2B may play a crucial role in clustering and regulation of activity of sodium channels at nodes of Ranvier. TNR-linked chondroitin sulfate glycosaminoglycans are involved in the interaction with FN1 and mediate inhibition of cell adhesion and neurite outgrowth. The highly regulated addition of sulfated carbohydrate structure may modulate the adhesive properties of TNR over the course of development and during synapse maintenance.

Subunit:

Forms oligomers. Interacts with CNTN1, TNC, and FN1. Interacts with BCAN and ACAN in a calcium-dependent manner. Interacts with SCN2B, PTPRZ1, and CSPG3 (By similarity).

Subcellular Location:

Secreted; extracellular space; extracellular matrix.

Tissue Specificity:

Brain specific.

Post-translational modifications:

Contains N-linked oligosaccharides, O-linked sialylated structures and O-linked chondroitin sulfate glycosaminoglycans. Contains N-linked oligosaccharides with a sulfated carbohydrate structure (By similarity). O-glycosylated on Thr-36 or Thr-37 with a core 1 or possibly core 8 glycan.

Similarity:

Belongs to the tenascin family.
Contains 5 EGF-like domains.
Contains 1 fibrinogen C-terminal domain.
Contains 9 fibronectin type-III domains.

SWISS:

P24821

Gene ID:
3371

Database links:

[Entrez Gene: 3371](#) Human

[Entrez Gene: 21923](#) Mouse

[Entrez Gene: 116640](#) Rat

[Omim: 187380](#) Human

[SwissProt: P24821](#) Human

[SwissProt: Q80YX1](#) Mouse

[SwissProt: B2LYI9](#) Rat

[Unigene: 143250](#) Human

[Unigene: 454219](#) Mouse

[Unigene: 980](#) Mouse

[Unigene: 12723](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.