

For Research Use Only

# Tenascin-R Polyclonal antibody, PBS Only

Catalog Number: 19730-1-PBS



## Basic Information

Catalog Number:

19730-1-PBS

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_003285

GeneID (NCBI):

7143

UNIPROT ID:

Q92752

Full Name:

tenascin R (restrictin, janusin)

Calculated MW:

150 kDa

Observed MW:

180 kDa, 160 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human

## Background Information

TNR, also named as Restrictin and Janusin, belongs to the tenascin family. 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, TNR inhibits RGD-dependent integrin-mediated cell adhesion and results in an inhibition of PTK2 (FAK) phosphorylation and cell detachment. Binding to membrane surface sulfatides, TNR results in an oligodendrocyte adhesion and differentiation. Interaction with CNTN1, TNR induces a repulsion of neurons and an inhibition of neurite outgrowth. Interacts with SCN2B, TNR 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. The antibody is specific to TNR.

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

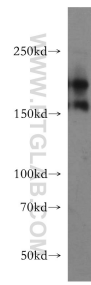
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

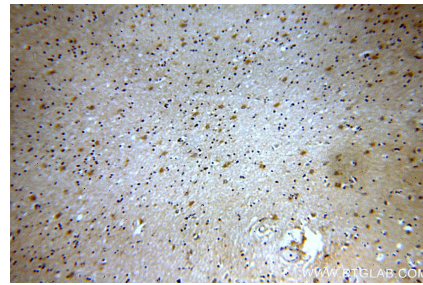
W: [ptgcn.com](http://ptgcn.com)

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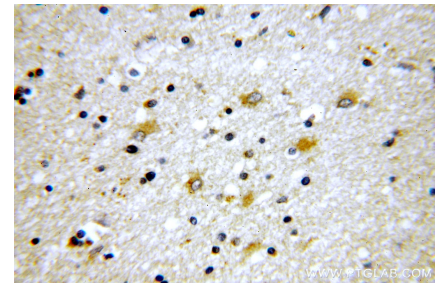
## Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 19730-1-AP (Tenascin-R antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 19730-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human brain using 19730-1-AP (Tenascin-R antibody) at dilution of 1:100 (under 10x lens). This data was developed using the same antibody clone with 19730-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human brain using 19730-1-AP (Tenascin-R antibody) at dilution of 1:100 (under 40x lens). This data was developed using the same antibody clone with 19730-1-PBS in a different storage buffer formulation.