

For Research Use Only

Tenascin-R Polyclonal antibody

Catalog Number: 19730-1-AP **1 Publications**



Basic Information

Catalog Number: 19730-1-AP	GenBank Accession Number: NM_003285	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 7143	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q92752	
Isotype: IgG	Full Name: tenascin R (restrictin, janusin)	
	Calculated MW: 150 kDa	
	Observed MW: 180 kDa, 160 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : human brain tissue, SH-SY5Y cells IHC : human brain tissue,
Cited Applications: WB, IHC	
Species Specificity: human	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiang-Xu Wang	35493457	Front Immunol	WB, IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

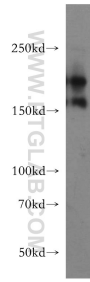
T: 4006900926

E: Proteintech-CN@ptglab.com

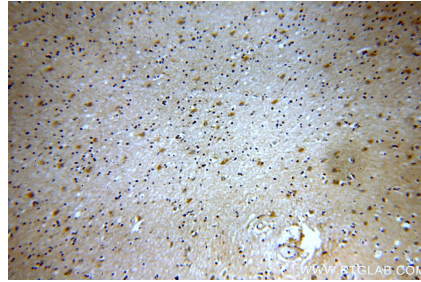
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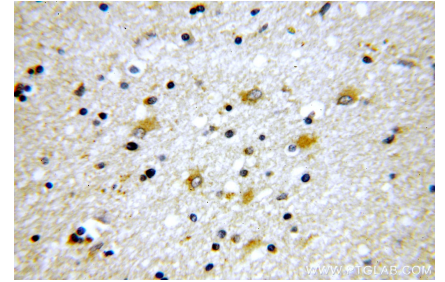
Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded human brain using 19730-1-AP (Tenascin-R antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 19730-1-AP (Tenascin-R antibody) at dilution of 1:100 (under 40x lens).