For Research Use Only

Tenascin-R Polyclonal antibody

Catalog Number:19730-1-AP 1 Publications

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Basic Information

Catalog Number:
19730-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 207 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003285

GeneID (NCBI):
7143

Full Name:
tenascin R (restrictin, janusin)

Calculated MW:
150 kDa

Observed MW:
180 kDa, 160 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200

Applications

Tested Applications:
IHC, WB,ELISA

Cited Applications:
IHC, WB

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

Positive Controls:

WB : human brain tissue, SH-SY5Y cells

IHC : human brain tissue,

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 a 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

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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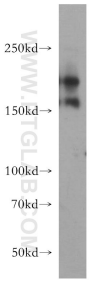
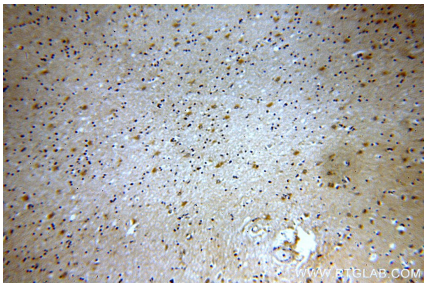
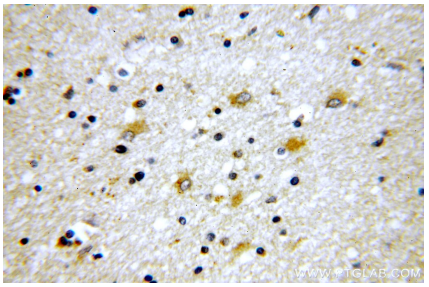
Selected Validation Data



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).