abcam

Product datasheet

Recombinant Human TNR protein ab159731

1 Image

Description

Product name	Recombinant Human TNR protein
Expression system	Wheat germ
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	VATHLSTPQGLQFKTITETTVEVQWEPFSFSFDGWEISFIP KNNEGGVIA QVPSDVTSFNQTGLKPGEEYIVNVVALKEQARSPPTSASV STVIDGPTQI LVRDVSDTV
Amino acids	411 to 519
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab159731** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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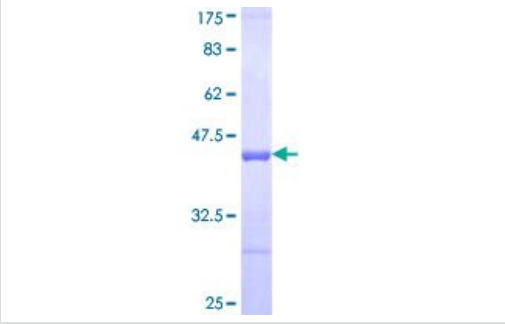
Function	Neural extracellular matrix (ECM) protein involved in interactions with different cells and matrix components. These interactions can influence cellular behavior by either evoking a stable adhesion and differentiation, or repulsion and inhibition of neurite growth. Binding to cell surface gangliosides 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.
Tissue specificity	Brain specific.
Sequence similarities	Belongs to the tenascin family. Contains 5 EGF-like domains. Contains 1 fibrinogen C-terminal domain. Contains 9 fibronectin type-III domains.
Domain	The EGF-like domains mediate interaction with CNTN1. The fibronectin type-III domains 3-5 mediate interaction with BCAN. The fibronectin type-III domains 1-2 and 7-9 mediate interaction with SCN2B.
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.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



SDS-PAGE - Recombinant Human TNR protein (ab159731)

ab159731 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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