

Rabbit Polyclonal Antibody to Human Contactin 1 / CNTN1 (Antigen Affinity Purified)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 10383-RP02

General Information

Immunogen:	Recombinant Human Contactin 1 / CNTN1 protein (Catalog#10383-H08H)
Ig Type:	Rabbit IgG
Applications:	WB, ELISA
Specificity:	Human Contactin 1 / CNTN1
Formulation:	0.2 µm filtered solution in PBS with 5% trehalose
Storage:	< -20° C

Preparation

Produced in rabbits immunized with purified, recombinant Human Contactin 1 / CNTN1 (rHuman Contactin 1 / CNTN1; Catalog#10383-H08H; NP_001834.2; Met 1-993). Contactin 1 / CNTN1 specific IgG was purified by Human Contactin 1 / CNTN1 affinity chromatography.

Applications

Western blot – This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human CNTN1 in WB. Using a DAB detection system, the detection limit for Human CNTN1 is approximately 4 ng/lane under non-reducing conditions and 16 ng/lane under reducing conditions.

Direct ELISA – This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human CNTN1. The detection limit for Human CNTN1 is approximately 0.00245 ng/well.

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

Contactin-1 (CNTN1) is a member of the contactin subfamily belonging to immunoglobulin superfamily. CNTN1 is a glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein consisting of 4 fibronectin type-III domains and 6 Ig-like C2-type (immunoglobulin-like) domains, and is expressed in numerous neuronal tissues, as well as neuroblastoma and retinoblastoma cell lines. As a cell adhesion molecule, CNTN1 plays a role in the formation of axon connections in the developing nervous system. It was demonstrated that CNTN1 participates in signal pathways via its association with Contactin-associated protein (CNTNAP1), receptor protein tyrosine phosphatase beta (RPTPb) and NOTCH1, and thus is involved in paranodal axo-glia junction formation and oligodendrocytes generation. Furthermore, studies indicated that CNTN1 functions importantly in the invasion and metastasis of lung adenocarcinoma cells.

Reference

1. Peles, E. et al., 1995, Cell. 82: 251-260.
2. Pierre, Kk. et al., 2001, Eur. J. Neurosci. 14: 645-656.
3. Su, J.L. et al., 2006, Cancer. Res.66: 2553-2561.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>