

Rabbit anti-Human Contactin-1 Polyclonal Antibody | anti-CNTN1 antibody

Anti-Contactin-1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259407	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

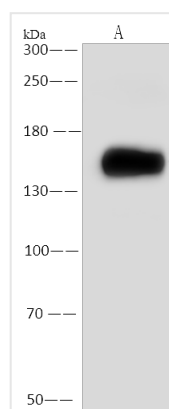
PRODUCT SYNONYMS

Contactin-1; Polyclonal Antibody; Anti-Contactin-1 Antibody; Rabbit Polyclonal; Contactin-1 Antibody; Rabbit PAb; Antigen Affinity Purified; contactin 1; Anti-CMYP12 Antibody; Anti-F3 Antibody; Anti-GP135 Antibody; Anti-MYPCN Antibody; anti-CNTN1 antibody

PRODUCT SPECIFICATIONS

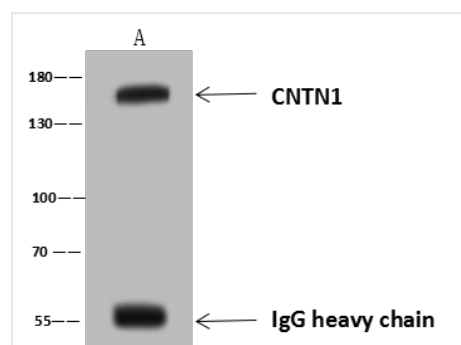
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Contactin-1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CNTN1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Contactin-1 Protein (NP_001834.2; Met1-Ser993). Contactin-1 specific IgG was purified by Human Contactin-1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



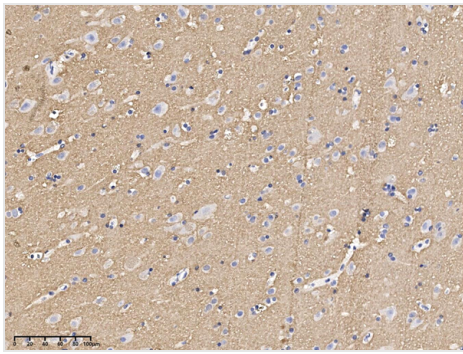
WB (Western Blot)

Anti-Contactin 1 rabbit polyclonal antibody at 1:500 dilution Lane A: A549 Whole Cell Lysate Lysates/proteins at 30ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 113 kDa



IP (Immunoprecipitation)

CNTN1 was immunoprecipitated using: Lane A: 0.5 mg A549 Whole Cell Lysate 4 uL anti-CNTN1 rabbit polyclonal antibody and 60ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CNTN1 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 130 kDa Observed band size :150 kDa



IHC (Immunohistochemistry)
 Immunochemical staining of human Contactin-1 in human brain with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-CNTN1 antibody	Contactins are a subgroup of molecules belonging to the immunoglobulin superfamily that are expressed exclusively in the nervous system. The subgroup consists of six members: Contactin-1, Contactin-2 (TAG-1), Contactin-3 (BIG-1), BIG-2, Contactin-5 (NB-2) and NB-3. Since their identification in the late 1980s, Contactin-1 and Contactin-2 have been studied extensively. Axonal expression and the neurite extension activity of Contactin-1 and Contactin-2 attracted researchers to study the function of these molecules in axon guidance during development. Contactin-1 and Contactin-2 have come to be known as the principal molecules in the function and maintenance of myelinated neurons. In contrast, the function of the other four members of this subgroup remained unknown until recently. Contactin-1 is a cell surface adhesion molecule that is normally expressed by neurons and oligodendrocytes. Particularly high levels of Contactin-1 are present during brain development. Contactin-1 and Contactin-2 are differentially expressed in a number of neuronal tissues during development, and they interact with several ligands including Nr-CAM, L1, NCAM, neurocan, phosphacan, and tenascin. As a cell adhesion molecule, Contactin-1 plays a role in the formation of axon connections in the developing nervous system. It was demonstrated that Contactin-1 participates in signal pathways via its association with Contactin-associated protein (CNTNAP1), receptor protein tyrosine phosphatase beta (RPTPb) and NOTCH1. Contactin-1 is also involved in paranodal axo-glial junction formation and oligodendrocytes generation. Furthermore, studies indicated that Contactin-1 functions importantly in the invasion and metastasis of lung adenocarcinoma cells. Contactin-1 may also significantly influence the functional expression and distribution of Na⁺ channels in neurons.
Product Categories/Family for anti-CNTN1 antibody	Notch Pathway
References	Kazarinov. NK. e. al. (2001. Contacti. associate. wit. Na. channel. an. increase. thei. functiona. expression. . Neurosci. 2. (19):7517-25.Eckeric. C. e. al. (2006. Contacti. i. expresse. i. huma. astrocyti. glioma. an. mediate. repulsiv. effects. Glia. 53(1):1-12.S. JL. e. al. (2006. Knockdow. o. contactin-. expressio. suppresse. invasio. an. metastasi. o. lun. adenocarcinoma. Cance. researc. 6. (5):2553-61.Compto. AG. e. al. (2008. Mutation. i. contactin-1. . neura. adhesio. an. neuromuscula. junctio. protein. caus. . familia. for. o. letha. congenita. myopathy. A. . Hu. Genet. 8. (6):714-24.Mikam. T. e. al. (2009. Contactin-. i. . functiona. recepto. fo. neuroregulator. chondroit. sulfate-E. . Bio. Chem. 284(7):4494-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28373117
NCBI GeneID	1272
NCBI Accession #	NP_001834.2
NCBI GenBank Nucleotide #	NM_001843.3
UniProt Accession #	Q12860; Q12861; Q14030; Q7M4P0; Q8N466; A8K0H9; A8K0Y3
Molecular Weight	70,604 Da
NCBI Official Full Name	contactin-1 isoform 1
NCBI Official Synonym Full Names	contactin 1

NCBI Official Symbol	CNTN1
NCBI Official Synonym Symbols	F3; GP135; MYPCN
NCBI Protein Information	contactin-1; glycoprotein gP135; neural cell surface protein F3
UniProt Protein Name	Contactin-1
UniProt Gene Name	CNTN1
UniProt Entry Name	CNTN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/contactin-1-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/259407>