

Product Information

MemDX™ Membrane Protein Human CNTNAP1 (Contactin associated protein 1) Full Length

Cat. No.: **MPC1099K**

This product is for research use only and is not intended for diagnostic use.

This product is a 156.2 kDa Human CNTNAP1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CNTNAP1

Protein Length

Full length

Protein Class

Cell adhesion

Molecular Weight

156.2 kDa

TMD

1

Sequence

MMHLRLFCILLA AVSGAEGWGYG CDEELVGPLYARSLGASSYYSLLTAP
RFARLHGISGWSPRIGDPNPWLQIDLMKKHRIRAVATQGSFNSWDWVTRY
MLLYGDRVDSWTFYQRGHNSTFFGNVNESAVVRHDLHFHTARYIRIVP
LAWNPRGKIGLRLGLYGCPYKADILYFDGDDAISYRFPRGVSRSLWDVFA
FSFKTEEKDGLLLHAEGAQGDYVTLELEGAHLLLHMSLGSSPIQPRPGHT
TVSAGGVLNDQHWYVVRVDRFGRDVNFTLDGYVQRFILNGDFERLNLDTE
MFIGGLVGAARKNLAYRHNFRGCIENVIFNRVNIADLAVRRHSRITFEGK
VAFRCLDPVPHPINFGGPHNFVQVPGFPRRGR LAVSFRFRTWDLTG LLLF
SRLGDGLGHVELTSEGQVNVSI AQSGRKKLQFAAGYRLNDGFWHEVNFV
AQENHAVISIDDVEGA EVRVSYP LLIRTGTSYFFGGCPKPASRWDCHSNQ
TAFHGCME LLKVDGQLVNL TLVEGRRLGFYAEVLFDTCGITDR CSPNMCE
HDGR CYQSWDDFICYCELTGYKGETCHTPLYKESCEAYRLSGKTSGNFTI
DPDGSGPLKPFV VYCDIRENRAWTVVRHDRLWTT RTVTGSSMERPF LGAIQ
YWNASWEEVSALANASQHCEQWIEFSCYNSRLLNTAGGYPYSFWIGRNEE
QHFWGGSQPGIQRACGLDRSCVDPALYCNC DADQPQWRD KGLLTFVD
HLPVTQVVIGDTNRSTSEA QFFLRPLRCY GDRNSWNTISFHTGAALRFPF
IRANHSLDVSFYFRTSAPSGVFLENMGGPYCQWRRPYVRVELNTRD VVF
AFDVGNNGDENLTVHSDDFEFNDDEWHLVRAEINVKQARLRVDHRPWVLRP
MPLQTYIWMEYDQPLYVGS AELKRRPFVGCLRAMRLNGVT LNLEGRANAS
EGTSPNCTGHCAHPRLPCFHGGRCVERYSYTCD CDLTAFDGPYCNHDIG
GFFEPGTWMRYNLQSALRSAAREFSHMLSRPVPGYEPGYIPGYDTPGYVP

GYHGPGYRLPDYPRPGRVPVGYRGPVYNVTGEEVSFSFSTSSAPAVLLYV
SSFVRDYMAVLIKDDGTLQLRYQLGTSPYVYQLTTRPVTGQPHSINIR
VYRNLFIQVDYFPLTEQKFSLLVDSQLDSPKALYLGRVMETGVIDPEIQR
YNTPGFSGCLSGVRFNNVAPLKTHFRTPRPMTAELAEALRVQGELSESNC
GAMPRLVSEVPPELDPWYLPDFPYHDEGWVAILLGFLVAFLLLGLVGM
LVLFYQLQNHRYKGSYHTNEPKAAHEYHPGSKPPLPTSGPAQVPTPTAAPN
QAPASAPAPAPTPAPAPGPRDQNLQPQILEESRSE

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CNTNAP1

Full Name

Contactin associated protein 1

Introduction

The gene product was initially identified as a 190-kD protein associated with the contactin-PTPRZ1 complex. The 1,384-amino acid protein, also designated p190 or CASPR for 'contactin-associated protein,' includes an extracellular domain with several putative protein-protein interaction domains, a putative transmembrane domain, and a 74-amino acid cytoplasmic domain. Northern blot analysis showed that the gene is transcribed predominantly in brain as a transcript of 6.2 kb, with weak expression in several other tissues tested. The architecture of its extracellular domain is similar to that of neuroligins, and this protein may be the signaling subunit of contactin, enabling recruitment and activation of intracellular signaling pathways in neurons.

Alternative Names

CNTNAP1; CHN3; P190; CASPR; NRXN4; CNTNAP; contactin-associated protein 1; caspr1; neuroligin IV; neuroligin-4; Contactin associated protein 1

Gene ID

[8506](#)

UniProt ID

[P78357](#)