CNTN2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CNTN2, Blocking Peptide
Full Product Name	CNTN2 Blocking Peptide
Product Gene Name	CNTN2 blocking peptide
Product Synonym Names	Axonal glycoprotein TAG 1; Axonal glycoprotein TAG-1; Axonal glycoprotein TAG1; Axonin 1; Axonin-1; Axonin1; AXT; CNTN 2; Cntn2; CNTN2_HUMAN; contactin 2 (axonal); Contactin 2; Contactin-2; Contactin2; DKFZp781D102; MGC157722; TAG 1; TAG 564; TAG564; TAX 1; TAX; TAX-1; TAX1; Transient axonal glycoprotein 1; Transiently expressed axonal glycoprotein
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CNTN2 peptide (MBS9624142) is used for blocking the activity of CNTN2 antibody (MBS9605425)
Molecular Weight	113,393 Da
OMIM	190197
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CNTN2 blocking peptide	Blocking/Control
Related Product Information for CNTN2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of CNTN2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CNTN2 purchase	MBS9624142 is a blocking peptide targeting CNTN2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNTN2. It may not necessarily be applicable to this product.

NCBI GI #	1069415307
NCBI GeneID	6900
NCBI Accession #	NP_001333012.1
UniProt Primary Accession #	Q02246

UniProt Secondary Accession #	P78432; Q5T054
UniProt Related Accession #	Q02246
GenBank Nucleotide #	NM_001346083.1
NCBI Official Full Name	contactin-2
NCBI Official Synonym Full Names	contactin 2
NCBI Official Symbol	CNTN2
NCBI Official Synonym Symbols	AXT; TAX; TAX1; FAME5; TAG-1
UniProt Protein Name	Contactin-2
UniProt Synonym Protein Names	Axonal glycoprotein TAG-1; Axonin-1; Transient axonal glycoprotein 1
Protein Family	Contactin
UniProt Gene Name	CNTN2
UniProt Synonym Gene Names	AXT; TAG1; TAX1; TAX-1
UniProt Entry Name	CNTN2_HUMAN
NCBI Protein Information	contactin-2
NCBI Summary for CNTN2	This gene encodes a member of the contactin family of proteins, part of the immunoglobulin superfamily of cell adhesion molecules. The encoded glycosylphosphatidylinositol (GPI)-anchored neuronal membrane protein plays a role in the proliferation, migration, and axon guidance of neurons of the developing cerebellum. A mutation in this gene may be associated with adult myoclonic epilepsy. [provided by RefSeq, Sep 2016]
UniProt Comments for CNTN2	CNTN2: May play a role in the initial growth and guidance of axons. May be involved in cell adhesion. Belongs to the immunoglobulin superfamily. Contactin family. Protein type: Membrane protein, GPI anchor; Cell adhesion Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: voltage-gated potassium channel complex; cell surface; cell soma; integral to plasma membrane; plasma membrane; synapse; myelin sheath Molecular Function: identical protein binding; protein self-association; carbohydrate binding; glycoprotein binding Biological Process: axon guidance; cerebral cortex GABAergic interneuron migration; myelination in the central nervous system; positive regulation of adenosine receptor signaling pathway; axonal fasciculation; regulation of astrocyte differentiation; microtubule cytoskeleton organization and biogenesis; learning; adult walking behavior; negative regulation of neuron differentiation; receptor internalization; clustering of voltage-gated potassium channels; regulation of axon diameter; cell adhesion; regulation of neuronal synaptic plasticity Disease: Epilepsy, Familial Adult Myoclonic, 5
Research Articles on CNTN2	**1.** the selective distribution of Caspr2 and TAG-1 may be regulated, allowing them to modulate the strategic function of the Kv1 complex along axons
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