CNTN4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CNTN4, Monoclonal Antibody
Full Product Name	CNTN4 (Contactin 4, AXCAM, BIG-2, Brain-derived Immunoglobulin Superfamily Protein 2, Contactin-4, MGC33615) (MaxLight 405)
Product Gene Name	anti-CNTN4 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4B10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CNTN4.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	607280
3D Structure	ModBase 3D Structure for Q8IWV2
Immunogen	Partial recombinant protein corresponding to aa800-899 from human CNTN4 (NP_783200) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EPTKPPASIFARSLSATDIEVFWASPLEKNRGRIQGYEVKYWRHEDKEENARKIRTVGNQTSTKITNLKGSVLYHLAVKAYNSAGTGPSSATVNVTTRK
Conjugate	MaxLight405
Product Categories/Family for anti-CNTN4 antibody	Antibodies; Neuroscience
Applications Tested/Suitable for anti-CNTN4 antibody	FLISA
Application Notes for anti-CNTN4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CNTN4 antibody	Contactins mediate cell surface interactions during nervous system development. Has some neurite outgrowth-promoting activity. May be involved in synaptogenesis.

Other Notes	Small volumes of anti-CNTN4 antibody 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 CNTN4 purchase	MBS6189534 is an antibody targeting CNTN4. Also known as CNTN4 (Contactin 4, AXCAM, BIG-2, Brain-derived Immunoglobulin Superfamily Protein 2, Contactin-4, MGC33615) (MaxLight 405). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNTN4. It may not necessarily be applicable to this product.

NCBI GI #	28373122
NCBI GeneID	152330
NCBI Accession #	NP_783200.1
UniProt Primary Accession #	Q8IWV2
UniProt Related Accession #	Q8IWV2
GenBank Nucleotide #	NM_175607
NCBI Official Full Name	contactin-4 isoform a
NCBI Official Synonym Full Names	contactin 4
NCBI Official Symbol	CNTN4
NCBI Official Synonym Symbols	AXCAM; BIG-2
UniProt Protein Name	Contactin-4
UniProt Synonym Protein Names	Brain-derived immunoglobulin superfamily protein 2
Protein Family	Contactin
UniProt Gene Name	CNTN4
UniProt Synonym Gene Names	BIG-2
UniProt Entry Name	CNTN4_HUMAN
NCBI Protein Information	contactin-4
NCBI Summary for CNTN4	This gene encodes a member of the contactin family of immunoglobulins. Contactins are axon-associated cell adhesion molecules that function in neuronal network formation and plasticity. The encoded protein is a glycosylphosphatidylinositol-anchored neuronal membrane protein that may play a role in the formation of axon connections in the developing nervous system. Deletion or mutation of this gene may play a role in 3p deletion syndrome and autism spectrum disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2011]

UniProt Comments for CNTN4	CNTN4: Contactins mediate cell surface interactions during nervous system development. Has some neurite outgrowth-promoting activity. May be involved in synaptogenesis. A chromosomal aberration involving CNTN4 has been found in a boy with characteristic physical features of 3p deletion syndrome (3PDS). Translocation t(3;10)(p26;q26). 3PDS is a rare contiguous gene disorder involving the loss of the telomeric portion of the short arm of chromosome 3 and characterized by developmental delay, growth retardation, and dysmorphic features. Belongs to the immunoglobulin superfamily. Contactin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 3p26.3 Cellular Component: axon; extracellular region; plasma membrane Biological Process: axon guidance; nervous system development; negative regulation of neuron differentiation; axonogenesis; axonal fasciculation; regulation of synaptic plasticity; neuron adhesion; brain development; neurite development
Research Articles on CNTN4	**1.** PPARGC1B and CNTN4 genotypes are associated with elevated thromboxane A2 formation and with an excess of cardiovascular events. Aspirin appears to blunt these associations.
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