BCAN Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	BCAN, Blocking Peptide
Full Product Name	BCAN Peptide - middle region
Product Gene Name	BCAN blocking peptide
Product Synonym Gene Name	BEHAB; CSPG7
Sequence	Synthetic peptide located within the following region: ESLSQAPARA VLQPGASPLP DGESEASRPP RVHGPPTETL PTPRERNLAS
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	BCAN peptide (MBS3247068) is used for blocking the activity of BCAN antibody (MBS3222395)
Molecular Weight	73 kDa
OMIM	600347
Product Categories/Family for BCAN blocking peptide	Peptide
Related Product Information for BCAN blocking peptide	This is a synthetic peptide designed for use in combination with anti- BCAN Antibody, made Target Description: This gene encodes a member of the lectican family of chondroitin sulfate proteoglycans that is specifically expressed in the central nervous system. This protein is developmentally regulated and may function in the formation of the brain extracellular matrix. This protein is highly expressed in gliomas and may promote the growth and cell motility of brain tumor cells. Alternate splicing results in multiple transcript variants.
Other Notes	Small volumes of BCAN 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 BCAN purchase	MBS3247068 is a blocking peptide targeting BCAN. Also known as BCAN Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	38372935
NCBI GeneID	63827
NCBI Accession #	NP_068767.3
UniProt Primary Accession #	Q96GW7
UniProt Related Accession #	Q96GW7
GenBank Nucleotide #	NM_021948.4
NCBI Official Full Name	brevican core protein isoform 1
NCBI Official Synonym Full Names	brevican

NCBI Official Symbol	BCAN
NCBI Official Synonym Symbols	BEHAB; CSPG7
UniProt Protein Name	Brevican core protein
UniProt Synonym Protein Names	Brain-enriched hyaluronan-binding protein; BEHAB; Chondroitin sulfate proteoglycan 7
Protein Family	Brevican core protein
UniProt Gene Name	BCAN
UniProt Synonym Gene Names	BEHAB; CSPG7; BEHAB
UniProt Entry Name	PGCB_HUMAN
NCBI Protein Information	brevican core protein
NCBI Summary for BCAN	This gene encodes a member of the lectican family of chondroitin sulfate proteoglycans that is specifically expressed in the central nervous system. This protein is developmentally regulated and may function in the formation of the brain extracellular matrix. This protein is highly expressed in gliomas and may promote the growth and cell motility of brain tumor cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]
UniProt Comments for BCAN	BCAN: May play a role in the terminally differentiating and the adult nervous system during postnatal development. Could stabilize interactions between hyaluronan (HA) and brain proteoglycans. Belongs to the aggrecan/versican proteoglycan family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Membrane protein, GPI anchor; Secreted Chromosomal Location of Human Ortholog: 1q31 Cellular Component: proteinaceous extracellular matrix; lysosomal lumen; Golgi lumen; extracellular region Molecular Function: extracellular matrix structural constituent; hyaluronic acid binding; carbohydrate binding Biological Process: chondroitin sulfate metabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; chondroitin sulfate biosynthetic process; central nervous system development; glycosaminoglycan metabolic process; chondroitin sulfate catabolic process; hippocampus development; carbohydrate metabolic process; pathogenesis; cell adhesion; skeletal development; dermatan sulfate biosynthetic process
Research Articles on BCAN	**1.** Data indicate that median methylation levels of BCAN, HOXD1, KCTD8, KLF11, NXPH1, POU4F1, SIM1, and TCF7L1 were >/=30% higher than in normal samples, representing potential biomarkers for tumor diagnosis.
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