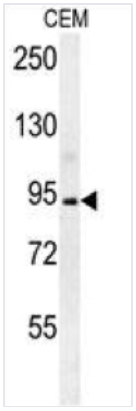
BCAN Antibody – Rabbit Polyclonal

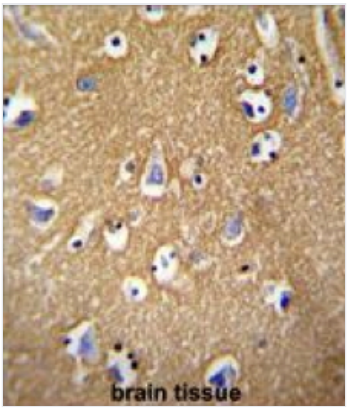
PRODUCT OVERVIEW

Product Name	BCAN, Polyclonal Antibody
Full Product Name	BCAN, CT (BCAN, BEHAB, CSPG7, Brevican core protein, Brain-enriched hyaluronan-binding protein, Chondroitin sulfate proteoglycan 7) (Biotin)
Product Gene Name	anti-BCAN antibody
Product Synonym Names	BCAN; BEHAB; CSPG7; Brevican core protein; Brain-enriched hyaluronan-binding protein; Chondroitin sulfate proteoglycan 7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human BCAN.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	99,118 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (156611740..156629324). Location: 1q31
OMIM	600347
3D Structure	ModBase 3D Structure for Q96GW7
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 715-741 in the C-terminal region of human BCAN, UniProt Accession #NP_940819.1; Q96GW7. Species sequence homology: bovine
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-BCAN antibody	Antibodies; Carbohydrates; Glycoproteins
Applications Tested/Suitable for anti-BCAN antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-BCAN antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-BCAN antibody	Brevican core protein 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.

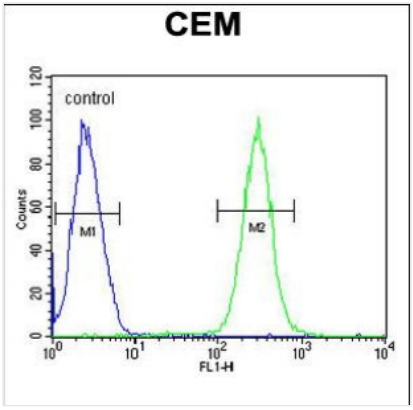
Other Notes	Small volumes of anti-BCAN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BCAN purchase	MBS6277759 is an antibody targeting BCAN. Also known as BCAN, CT (BCAN, BEHAB, CSPG7, Brevican core protein, Brain-enriched hyaluronan-binding protein, Chondroitin sulfate proteoglycan 7) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-BCAN antibody
Western Blot analysis in CEM cell line lysates (35ug/lane) usingMBS642278. This demonstrates that MBS642278 detected the BCAN protein (arrow).



Immunohistochemistry (IHC) of anti-BCAN antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue using MBS642278 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS642278 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-BCAN antibody
Flow Cytometry analysis of CEM cells using MBS642278 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

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

NCBI GI #	38372931
NCBI GeneID	63827
NCBI Accession #	NP_940819.1
NCBI Related Accession #	NP_068767.3
UniProt Primary Accession #	Q96GW7
UniProt Secondary Accession #	Q28062
UniProt Related Accession #	Q96GW7
GenBank Nucleotide #	NM_198427.1

NCBI Official Full Name	brevican core protein isoform 2
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; chondroitin sulfate proteoglycan 7; chondroitin sulfate proteoglycan BEHAB; brain-enriched hyaluronan-binding 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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