

Anti-Versican Picoband Antibody

Catalog # ABO12142

Product Information

Application	WB, IHC-P
Primary Accession	P13611
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Versican core protein(VCAN) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1462
Other Names	Versican core protein, Chondroitin sulfate proteoglycan core protein 2, Chondroitin sulfate proteoglycan 2, Glial hyaluronate-binding protein, GHAP, Large fibroblast proteoglycan, PG-M, VCAN, CSPG2
Calculated MW	372820
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Mouse, Rat, Human
Subcellular Localization	Secreted, extracellular space, extracellular matrix.
Tissue Specificity	Cerebral white matter and plasma. Isoform V0 and isoform V1 are expressed in normal brain, gliomas, medulloblastomas, schwannomas, neurofibromas, and meningiomas. Isoform V2 is restricted to normal brain and gliomas. Isoform V3 is found in all these tissues except medulloblastomas.
Source	Eukaryota
Protein Name	Versican core protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Versican (65-92aa KWSKIEVDKNGKDLKETTTLVAQNGNIK), different from the related mouse and rat sequences by two amino acids.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the aggrecan/versican proteoglycan family.

Protein Information

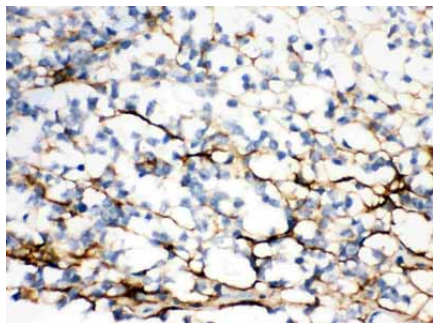
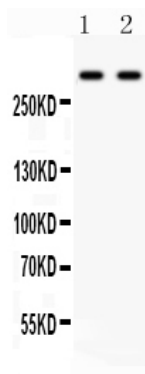
Name	VCAN
Synonyms	CSPG2
Function	May play a role in intercellular signaling and in connecting cells with the extracellular matrix. May take part in the regulation of cell motility, growth and differentiation. Binds hyaluronic acid.
Cellular Location	Secreted, extracellular space, extracellular matrix. Cell projection, cilium, photoreceptor outer segment. Secreted, extracellular space, extracellular matrix, interphotoreceptor matrix. Secreted
Tissue Location	Detected in placenta (at protein level) (PubMed:32337544). Detected in cerebrospinal fluid, fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313). Expressed in the retina (at protein level) (PubMed:29777959). Cerebral white matter and plasma (PubMed:2469524). Isoform V0: Expressed in normal brain, gliomas, medulloblastomas, schwannomas, neurofibromas, and meningiomas (PubMed:8627343). Isoform V1: Expressed in normal brain, gliomas, medulloblastomas, schwannomas, neurofibromas, and meningiomas (PubMed:8627343). Isoform V2: Restricted to normal brain and gliomas (PubMed:8627343). Isoform V3: Found in all these tissues except medulloblastomas (PubMed:8627343).

Background

Versican (VCAN), also known as CSPG2, is a large extracellular matrix proteoglycan that is present in a variety of human tissues. Versican is a large chondroitin sulfate proteoglycan with an apparent molecular mass of more than 1000kDa. The Versican gene is mapped on 5q14.2-q14.3. The human versican gene contains 15 exons spanning more than 90 kb. The distribution of versican by using affinity-purified polyclonal antibodies that recognize the core protein of the prominent versican splice variants V0 and V1. Versican staining was noted in the central and peripheral nervous system, in the basal layer of the epidermis, and on the luminal surface of some glandular epithelia. Biochemical purification of LLC-conditioned medium led to identification of the extracellular matrix proteoglycan versican, which is upregulated in many human tumors including lung cancer, as a macrophage activator that acts through TLR2 and its coreceptors TLR6 and CD14. By activating TLR2:TLR6 complexes and inducing TNF-alpha secretion by myeloid cells, versican strongly enhances LLC metastatic growth.

Images

Anti- Versican Picoband antibody, ABO12142, Western blottingAll lanes: Anti Versican (ABO12142) at 0.5ug/mLane 1: Rat Brain Tissue Lysate at 50ugLane 2: HEPA Whole Cell Lysate at 40ugPredicted bind size: 373KDObserved bind size: 373KD



Anti- Versican Picoband antibody, ABO12142,
IHC(P)IHC(P): Human Glioma Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.