

## Anti-Versican Antibody

Catalog # ABO11065

### Specification

#### Anti-Versican Antibody - Product Information

Application **WB, IHC**  
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.

#### Anti-Versican Antibody - 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 MW KDa

#### Application Details

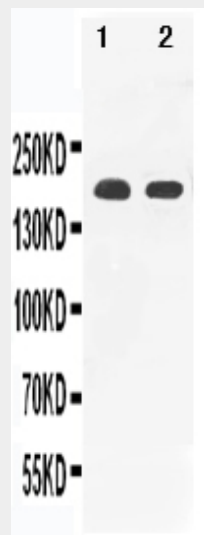
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

#### Subcellular Localization

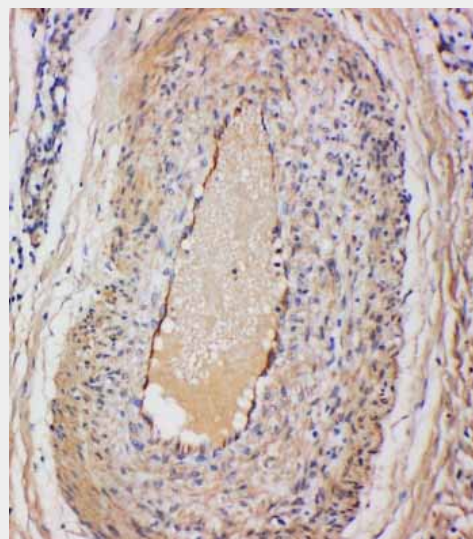
Secreted, extracellular space, extracellular matrix.

#### Tissue Specificity

Cerebral white matter and plasma. Isoform V0 and isoform V1 are expressed in normal brain, gliomas, medulloblastomas, schwannomas, neurofibromas, and



Anti-Versican antibody, ABO11065, Western blotting  
Lane 1: Human Placenta Tissue Lysate  
Lane 2: Rat Heart Tissue Lysate



Anti-Versican antibody, ABO11065, IHC(P)  
IHC(P): Human Intestinal Cancer Tissue

#### Anti-Versican Antibody - Background

Versican(VCAN), also known as CSPG2, is a large extracellular matrix proteoglycan that is present in a variety of human tissues. Versican

meningiomas. Isoform V2 is restricted to normal brain and gliomas. Isoform V3 is found in all these tissues except medulloblastomas.

**Protein Name**

Versican core protein

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Versican(3314-3333aa RYEINSLIRYHCKDGFIQRH), identical to the related rat and mouse sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After receipt, 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.

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.

**Anti-Versican Antibody - 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

**Tissue Location**

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)

**Anti-Versican Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)