

## Product datasheet

### Anti-Versican antibody [EPR12277] ab177480

Recombinant RabMAb

★★★★★ [3 Abreviews](#) [24 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-Versican antibody [EPR12277]
<b>Description</b>	Rabbit monoclonal [EPR12277] to Versican
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Versican aa 3200-3300 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P13611</a>
<b>Positive control</b>	WB: Fetal brain, fetal heart, rat and mouse hippocampal, mouse heart lysates;
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12277

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab177480 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/5000. Predicted molecular weight: 373 kDa.

### Application notes

Is unsuitable for IHC-P.

## Target

### 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.

### 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.

### Involvement in disease

Defects in VCAN are the cause of Wagner syndrome type 1 (WGN1) [MIM:143200]. WGN is a dominantly inherited vitreoretinopathy characterized by an optically empty vitreous cavity with fibrillary condensations and a preretinal avascular membrane. Other optical features include progressive chorioretinal atrophy, perivascular sheathing, subcapsular cataract and myopia. Systemic manifestations are absent in WGN.

### Sequence similarities

Belongs to the aggrecan/versican proteoglycan family.  
Contains 1 C-type lectin domain.  
Contains 2 EGF-like domains.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.  
Contains 2 Link domains.  
Contains 1 Sushi (CCP/SCR) domain.

### Developmental stage

Disappears after the cartilage development.

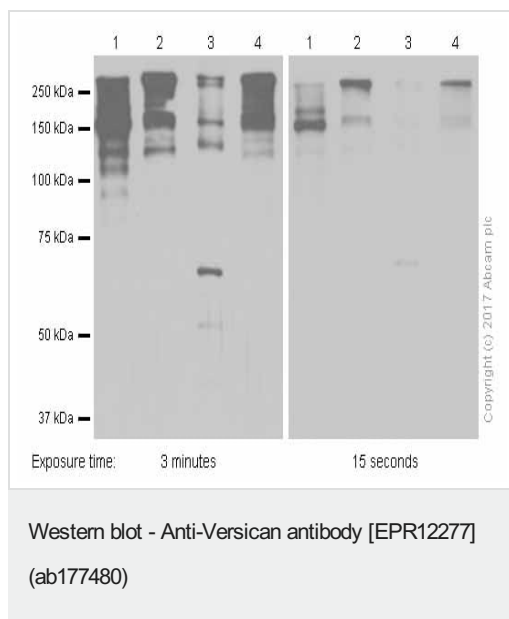
### Post-translational modifications

Phosphorylation sites are present in the extracellular medium.

### Cellular localization

Secreted > extracellular space > extracellular matrix.

## Images



**All lanes :** Anti-Versican antibody [EPR12277] (ab177480) at 0.1 µg/ml (purified)

**Lane 1 :** Human hippocampus lysate

**Lane 2 :** Mouse hippocampus lysates

**Lane 3 :** Mouse heart lysates

**Lane 4 :** Rat hippocampus lysates

Lysates/proteins at 20 µg per lane.

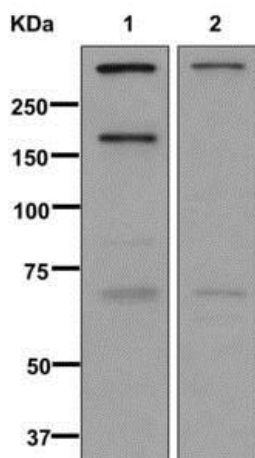
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 373 kDa

Blocking and diluting buffer: 5% NFDM/TBST

This antibody detects multi-bands due to the splicing variants and proteolytic fragments (PMID: 27683612, 24401530, 29222454, 19662655)



Western blot - Anti-Versican antibody [EPR12277] (ab177480)

**All lanes :** Anti-Versican antibody [EPR12277] (ab177480) at 1/1000 dilution (Unpurified)

**Lane 1 :** Fetal brain lysate

**Lane 2 :** Fetal heart lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 373 kDa

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Versican antibody [EPR12277] (ab177480)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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