Product datasheet

Anti-Versican antibody ab19345

Product name: Anti-Versican antibody
Description: Rabbit polyclonal to Versican
Host species: Rabbit
Specificity: This antibody can be used to detect versican V1 (ADAMTS-1/4 site). This product is against the neoepitope of versican generated by cleavage of the versican core protein by ATAMTS 1/4.

Tested applications: Suitable for: IHC-Fr, WB, IP, IHC-P
Species reactivity: Reacts with: Mouse, Human, Pig
Predicted to work with: Rat

Immunogen: Synthetic peptide: CGG- DPEAAE, corresponding to amino acids 436-441 of Human Versican (Peptide available as ab39784.)

Positive control: WB: Human aorta lysate.

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer: pH: 7.60
Preservative: 0.05% Sodium azide
Constituents: PBS, 0.1% BSA
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications:
Our Abpromise guarantee covers the use of ab19345 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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 fibrillar 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
Anti-Versican antibody (ab19345) at 1 µg/ml + Lysates prepared from human aorta.

ab19345 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~70 kDa protein representing Versican from mouse cumulus oocyte complexes.
Please note:  All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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