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Datasheet for ABIN3043957

anti-Versican antibody (N-Term)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	Versican (Vcan)
Binding Specificity:	AA 65-92, N-Term
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Versican core protein(VCAN) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Sequence:	KWSKIEVDKN GKDLKETTTL VAQNGNIK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Versican core protein(VCAN) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: versican Protein Name: Versican core protein

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Versican (Vcan)

Alternative Name: VCAN ([Vcan Products](#))

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 1000 kDa. 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.

Synonyms: Chondroitin sulfate proteoglycan 2 antibody|Chondroitin sulfate proteoglycan core protein 2 antibody|CSPG2 antibody|CSPG2_HUMAN antibody|ERVR antibody|GHAP antibody|Glial hyaluronate binding protein antibody|Glial hyaluronate-binding protein antibody|Large fibroblast proteoglycan antibody|PG-M antibody|PGM antibody|VCAN antibody|Versican core protein antibody|Versican proteoglycan antibody|WGN 1 antibody|WGN antibody|WGN1 antibody

Gene ID: 1462

UniProt: [P13611](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human , The detection limit for Versican is approximately 0.1 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of

Application Details

formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

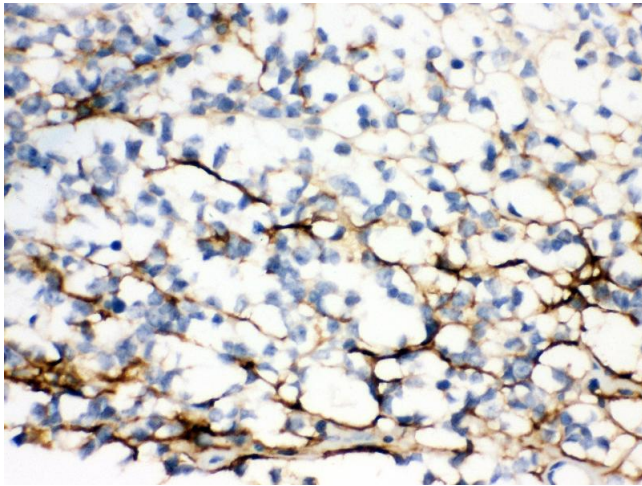
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, 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.

Publications

Product cited in: Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) ([PubMed](#)).



Immunohistochemistry

Image 1. Anti- Versican Picoband antibody, IHC(P) IHC(P):
Human Glioma Tissue



Western Blotting

Image 2. Anti- Versican Picoband antibody, Western blotting
All lanes: Anti Versican at 0.5ug/ml Lane 1: Rat Brain Tissue
Lysate at 50ug Lane 2: HEPA Whole Cell Lysate at 40ug
Predicted bind size: 373KD Observed bind size: 373KD