

Versican Rabbit mAb

Catalog No: #49792



Package Size: #49792-1 50ul #49792-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

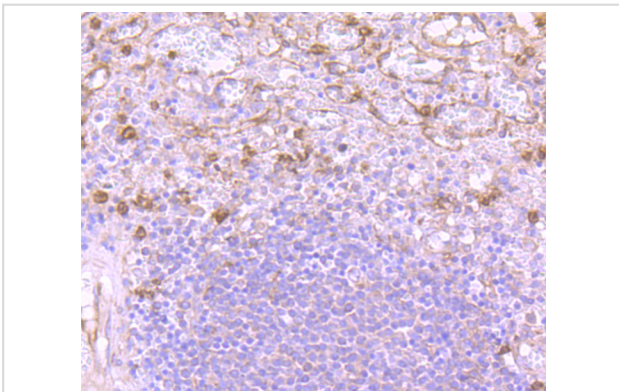
Description

Product Name	Versican Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB42-32
Purification	ProA affinity purified
Applications	IHC, WB
Species Reactivity	Hu, Ms
Immunogen Description	Recombinant protein
Other Names	Chondroitin sulfate proteoglycan 2 antibody Chondroitin sulfate proteoglycan core protein 2 antibody Chondroitin sulfate proteoglycan core protein, cartilage 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 antibody Versican core protein antibody Versican proteoglycan antibody WGN 1 antibody WGN antibody WGN1 antibody
Accession No.	Swiss-Prot#:P13611
Calculated MW	373/265/182/74 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

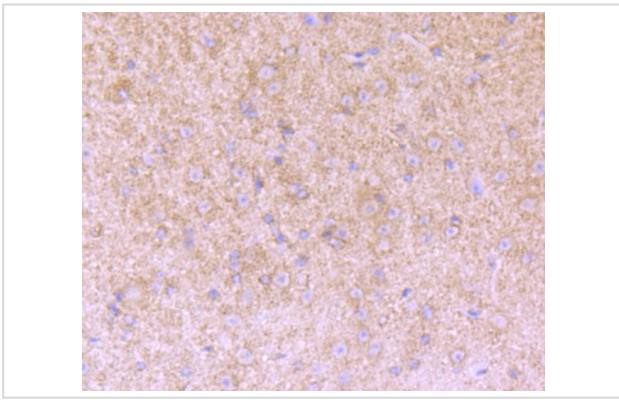
Application Details

IHC: 1:50-1:200

Images



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Versican antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Versican antibody. Counter stained with hematoxylin.

Background

Versican (chondroitin sulfate proteoglycan 2) is a large extracellular matrix proteoglycan involved in cell growth and differentiation. Important as a structural molecule, versican creates loose and hydrated matrices during key events in development and disease. The protein contains hyaluronic acid and glycosaminoglycan-binding domains, epidermal growth factor-like repeats, a lectin-like sequence and a complement regulatory protein-like domain. Splice variants differ greatly in length and degree of modification by glycosaminoglycan chains. Accumulation around smooth muscle cells in lesions of atherosclerosis, suggests a role for versican in atherogenesis. Versican, differentially expressed in human melanoma, plays a role in tumor development and may be a reliable marker for clinical diagnosis. The organization of HA- and versican-rich pericellular matrices may facilitate migration and mitosis by diminishing cell surface adhesivity and affecting cell shape through steric exclusion and the viscous properties of HA proteoglycan gels. The human versican gene maps to chromosome 5q14.3.

References

1. Miyamoto T et al. Identification of a novel splice site mutation of the CSPG2 gene in a Japanese family with Wagner syndrome. Invest Ophthalmol Vis Sci 46:2726-2735 (2005).
2. Kloeckener-Gruissem B et al. Novel VCAN mutations and evidence for unbalanced alternative splicing in the pathogenesis of Wagner syndrome. Eur J Hum Genet 21:352-356 (2013).

Published Papers

el at., Single-cell analysis reveals the immune heterogeneity and interactions in lungs undergoing hepatic ischemia-reperfusion. *Immunopharmacol On 2023 Nov*; by Chen Zhang¹, Mingwei Sheng², et al. PMID:37844464, (2023)
[PMID:37844464](https://pubmed.ncbi.nlm.nih.gov/37844464/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.