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Versican Antibody
Versican Antibody, Clone S351-23
Catalog # ASM10273

Specification

Versican Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q62059
Other Accession	AAH96495
Host	**Mouse**
Isotype	**IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Mouse Versican Monoclonal IgG1

Target/Specificity
Detects >350kDa.

Other Names
Chondroitin sulfate proteoglycan 2 Antibody, CSPG2 Antibody, ERVR Antibody, GHAP Antibody, PG-M Antibody, VCAN Antibody, Chondroitin sulfate proteoglycan 2 Antibody, Chondroitin sulfate proteoglycan core protein 2 Antibody, Glial hyaluronate binding protein Antibody, Glial hyaluronate-binding protein Antibody, Large fibroblast proteoglycan Antibody, Large fibroblast proteoglycan Antibody, PGM Antibody, V1 Neo Antibody, Versican core protein Antibody, Versican proteoglycan Antibody, Versican V0 Antibody, WGN 1 Antibody, WGN Antibody, WGN1 Antibody

Immunogen
Fusion protein amino acids 362-585 (glycosaminoglycan alpha domain) of mouse Versican core protein

Purification
Protein G Purified

Storage	**-20ºC**

Storage Buffer
PBS pH7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
1 µg/ml of SMC-439 was sufficient for detection of Versican in 20 µg of mouse brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

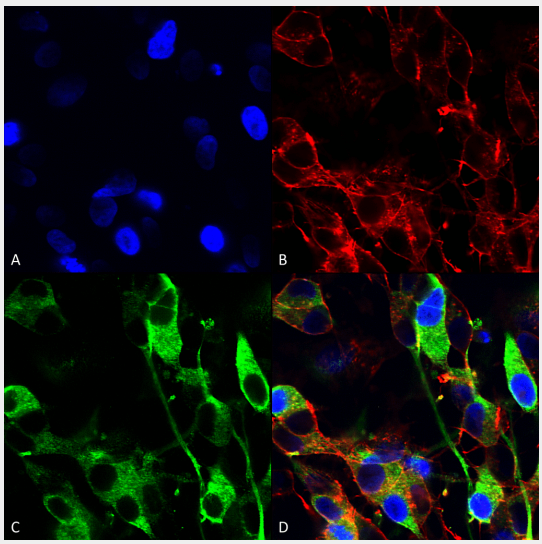
Cellular Localization
Extracellular Space | Extracellular Matrix

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 Cytomety
- Cell Culture

Versican Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Versican Monoclonal Antibody, Clone N351/23 (ASM10273). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Versican Monoclonal Antibody (ASM10273) at 1:200 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Versican Antibody (D) Composite.

Versican Antibody - 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 glycosminoglycan-binding domains, epidermal growth factor-like repeats, a Lectinlike sequence and a complement regulatory protein-like domain. Splice variants differ greatly in length anddegree of modification by glycoaminoglycan chains. Accumulation around smooth muscle cells in lesions of athero-sclerosis 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 faciliatate migration and mitosis by diminishing cell surface adhesivity and affecting cell shape through steric exclusion and the viscous properties of HA proteoglycan gels.

Versican Antibody - References

1. Dours-Zimmermann M.T. and Zimmermann D.R. (1994) J. Biol. Chem. 52: 32992-32998.
2. Evanko S.P., Angello J.C. and Wight T.N. (1999) Arterioscler. Thromb. Vasc. Biol. 4:1004-1013.
3. Lemire J.M., et al. (1999) Arterioscler. Thromb. Vasc. Biol. 7: 1630-1639.

4.Wight T.N. (2002) Curr. Opin. Cell Biol. 5: 617-623.
5. Touab M., Villena J., Barranco C., Arumi-Uria M. and Bassols A. (2002) Am. J. Pathol. 2: 549-557.