

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

Specification

Versican Antibody - Product Information

Application	WB
Primary Accession	O62059
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 **-20°C**

Storage Buffer

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

Shipping Temperature **Blue Ice or 4°C**

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

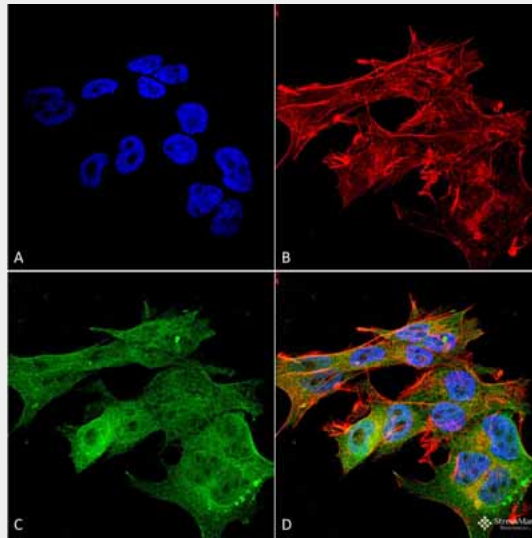
Extracellular Space | Extracellular Matrix

Versican Antibody - Protocols

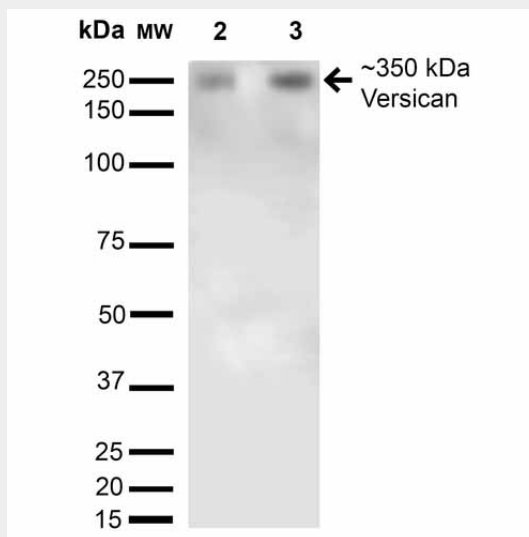
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Versican Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Versican Monoclonal Antibody, Clone S351-23 (ASM10273). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Versican Monoclonal Antibody (ASM10273) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, Membrane, Extracellular Space, Extracellular Matrix. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Versican Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane and brain showing detection of 350kDa Versican

protein using Mouse Anti-Versican Monoclonal Antibody, Clone S351-23 (ASM10273). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane and brain. Load: 15 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Versican Monoclonal Antibody (ASM10273) at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: KPL TMB. Predicted/Observed Size: 350kDa. Other Band(s): Multiple other bands.

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 glycosaminoglycan-binding domains, epidermal growth factor-like repeats, a Lectinlike sequence and a complement regulatory protein-like domain. Splice variants differ greatly in length and degree 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 facilitate 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.