**Species Reactivity**: Human  
**Specificity**: Detects human Versican isoform V0 in direct ELISAs and Western blots.  
**Source**: Polyclonal Goat IgG  
**Purification**: Antigen Affinity-purified  
**Immunogen**: *E. coli*-derived recombinant human Versican isoform V0  
**Accession #**: P13611

**Formulation**: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.*

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 µg/mL</td>
<td>Recombinant Human Versican Isoform V0</td>
</tr>
<tr>
<td>Immunocytochemistry</td>
<td>5-15 µg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>5-15 µg/mL</td>
<td>Immersion fixed frozen sections of mouse embryo (E13.5)</td>
</tr>
</tbody>
</table>

**DATA**

**Immunocytochemistry**

Versican in HeLa Human Cell Line. Versican was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using 10 µg/mL Goat Anti-Human Versican Isoform V0 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3054) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

**Immunocytochemistry**

Versican in U-251 MG Human Cell Line. Versican was detected in immersion fixed U-251 MG human glioblastoma cell line (positive staining) and Daudi human Burkitt’s lymphoma cell line (negative staining) using Goat Anti-Human Versican Isoform V0 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3054) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**PREPARATION AND STORAGE**

**Reconstitution**: Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping**: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.*

**Stability & Storage**: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Versican (versatile proteoglycan; also known as PG-M) is a 500-600 kDa, secreted member of the Aggrecan/Versican proteoglycan family. It is a variably glycanated, hyaluronan-binding, chondroitin sulfate-containing molecule that likely serves an anti-adhesion function and regulates the hydration properties of pericellular matrices. Human Versican is 3396 amino acids (aa) in length. It contains an N-terminal hyaluronan-binding region (G1; aa 21-346), two large, alternately spliced GAG attachment domains (GAGα; aa 348-1335; GAGβ aa 1336-3088) and a C-terminal selectin-like region (G3; aa 3089-3396). Over aa 1344-1554, human Versican shares 80% and 60% aa sequence identity with canine and mouse Versican, respectively.