

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human Versican isoform V0 in direct ELISAs and Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human Versican isoform V0 Gly1344-Asp1554 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. |

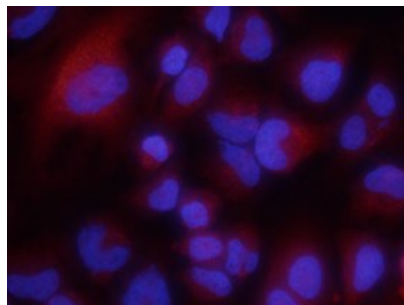
APPLICATIONS

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.

| | Recommended Concentration | Sample |
|-----------------------------|---------------------------|---|
| Western Blot | 0.1 µg/mL | Recombinant Human Versican Isoform V0 |
| Immunocytochemistry | 5-15 µg/mL | See Below |
| Immunohistochemistry | 5-15 µg/mL | Immersion fixed frozen sections of mouse embryo (E13.5) |

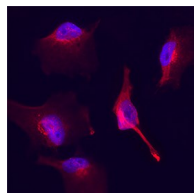
DATA

Immunocytochemistry

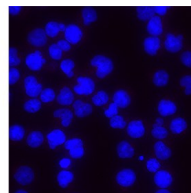


Versican in HeLa Human Cell Line. Versican was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using 10 µg/mL Goat Anti-Human Versican Isoform V0 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3054) for 3 hours at room temperature. Cells were stained with the 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



U-251 MG cells (positive)



Daudi cells (negative)

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. <ul style="list-style-type: none"> • 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.