**BACKGROUND**

The Testican family, also designated the BM-40/SPARC/osteonectin family, is composed of highly conserved, extracellular, calcium-binding, sulfate proteoglycans. Expression of Testicans is detected in a variety of tissues, but is most abundant in brain. Family members include Testican-1, Testican-2, Testican-3 and an amino-terminal splice variant of Testican-3, designated N-Tes. Most Testicans inhibit MT-MMPs, thereby inhibiting the activity of pro-MMP-2. Testican-1 is specifically expressed in the thalamus of the brain, and is upregulated in activated astroglial cells of the cerebrum where it mediates neuronal attachment and matrix metalloproteinase activation. After a neural injury, such as a cerebral stroke, Testican-1 expression is upregulated in astrocyte cells in order to inhibit the ability of the protein Neuro-2a to form neurite extensions. Testican-1 is also a component of joint and of the growth plate cartilage that may participate in the regulation of matrix turnover.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SPOCK1 (human) mapping to 5q31.2; Spock1 (mouse) mapping to 13B1.

**SOURCE**

Testican-1 (A-3) is a mouse monoclonal antibody raised against amino acids 161-238 mapping within an internal region of Testican-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**APPLICATIONS**

Testican-1 (A-3) is recommended for detection of Testican-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Testican-1 siRNA (h): sc-61689, Testican-1 siRNA (m): sc-61670, Testican-1 shRNA Plasmid (h): sc-61689-SH, Testican-1 shRNA Plasmid (m): sc-61670-SH, Testican-1 shRNA (h) Lentiviral Particles: sc-61689-V and Testican-1 shRNA (m) Lentiviral Particles: sc-61670-V.

Molecular Weight of Testican-1: 50-56 kDa.

Positive Controls: human Testican-1 transfected 293T whole cell lysate or rat brain extract: sc-2392.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

See our web site at www.scbt.com for detailed protocols and support products.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.