

Monoclonal Anti-human Testican 1/SPOCK1 Antibody

ORDERING INFORMATION

Catalog Number: MAB2327

Clone: 316801

Lot Number: XCX01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Testican 1

Immunogen: NS0-derived rhTestican 1

Ig class: mouse IgG₁

Recommended Applications:

Western blot
Immunoprecipitation

Other Application:

Direct ELISA

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human Testican 1 (rhTestican 1; aa 22-439; Accession # NP_004589). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. Testican 1, also known as SPOCK1, was originally identified in seminal plasma and is also expressed in brain. It is a proteoglycan that contains a Ca²⁺-binding domain and a C-terminal acidic domain with putative glycosaminoglycan attachment sites as well as three potential inhibitory domains targeted toward three different classes of proteases, metallo-, cysteine and serine proteases. The amino acid sequence of rhTestican 1 is 95% identical to that of mouse.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects human Testican 1 in direct ELISAs and western blots. In these applications this antibody shows no cross-reactivity with rhTestican 2 or rhTestican 3.

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human Testican 1. Using a colorimetric detection system, the detection limit for rhTestican 1 is approximately 5 ng/lane and 100 ng/lane under non-reducing and reducing conditions, respectively. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

Immunoprecipitation - This antibody was used at a concentration of 25 µg/mL to immunoprecipitate rhTestican 1 from conditioned cell culture medium.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Testican 1. The detection limit for rhTestican is approximately 5 ng/well.

Optimal dilutions should be determined by each laboratory for each application.