

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Testican 3/SPOCK3 in direct ELISAs and Western blots. In Western blots, approximately 30% cross-reactivity with recombinant human (rh) Testican 1 and rhTestican 3 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 330404
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Testican 3/SPOCK3 Val26-Ile436 Accession # Q8BKV0
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	1 µg/mL	Recombinant Mouse Testican 3/SPOCK3 (Catalog # 2346-PI) under non-reducing conditions only
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Mouse Testican 3/SPOCK3 (Catalog # 2346-PI), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

Testican 3, encoded by the SPOCK3 gene, is a proteoglycan expressed in brain (1). Human and mouse Testican 3 share 90% amino acid sequence identity, indicating a conserved function (2, 3). Testican 3 contains Ca²⁺-binding domain and the C-terminal acidic domain with putative glycosaminoglycan attachment sites. In addition, it contains three potential inhibitory domains targeted toward three different classes of proteases, metallo, cysteine and serine proteases. The N-terminal region, which is unique to Testicans, is responsible for the inhibition of Testican 3 towards MMP-14/MT1-MMP activation of MMP-2 (1). The thyropin domain and the follistatin-like domain with a six cysteine Kazal-like motif may inhibit cysteine and serine proteases, respectively (4). A splice variant designated as N-Tes contains the N-terminal unique region, the follistatin-like domain and the Ca²⁺-binding domain, but lacks the C-terminal thyropin domain and the acidic domain (1).

References:

1. Nakada, M. *et al.* (2001) *Cancer Res.* **61**:8896.
2. Strausberg, R.L. *et al.* (2002) *Proc. Natl. Acad. Sci. USA* **99**:16899.
3. Okazaki, Y. *et al.* (2002) *Nature* **420**:563.
4. Alliel, P.M. *et al.* (1993) *Eur. J. Biochem.* **214**:347.