

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse Testican 3/SPOCK3 in ELISAs. In sandwich immunoassays, less than 0.25% cross-reactivity with recombinant human (rh) Testican 1 is observed and no cross-reactivity with rhTestican 2 is observed. |
| Source | Monoclonal Rat IgG ₁ Clone # 330403 |
| 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 |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

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.

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| ELISA Capture (Matched Antibody Pair) | Optimal dilution of this antibody should be experimentally determined. |
| ELISA Detection (Matched Antibody Pair) | Optimal dilution of this antibody should be experimentally determined. |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

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 spliced 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).

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