Mouse Testican 3/SPOCK3 Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 330404

Catalog Number: FAB23461X

100 µg

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
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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 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).

PRODUCT SPECIFIC NOTICES

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