

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Testican 1/SPOCK1 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) Testican 2 is observed and less than 2% cross-reactivity with rhTestican 3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Testican 1/SPOCK1 Arg22-Trp439 Accession # Q08629
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.

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 1, encoded by the SPOCK1 gene, is a proteoglycan first identified in human seminal plasma (1). The cDNAs from the human testis and mouse brain indicate 95% identity between the deduced amino acid sequences from the two species, predicting a conserved function (2, 3). Human Testican 1 is able to inhibit attachment of Neuro-2a cells and their ability to form neurite extensions (4). At R&D Systems, rhTestican 1 has also been shown to be able to enhance neurite outgrowth of E18 rat embryonic hippocampal neurons. Testican 1 contains Ca²⁺-binding domain and the C-terminal acidic domain with putative glycosaminoglycan attachment sites (5). 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 1 towards MMP-14 (MT1-MMP, a metalloprotease) activation of MMP-2 (6). The thyroprin domain may be responsible for the inhibition of testican 1 towards cathepsin L, a cysteine protease (5). The follistatin-like domain with a six cysteine Kazal-like motif may inhibit serine proteases. The purified rhTestican 1 is capable of inhibiting rhMMP-14 and rhCathepsin L (R&D Systems, Catalog # 918-MP and 952-CY) in assays using the fluorogenic peptide substrates (R&D Systems, Catalog # ES001 and ES008).

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