Human Testican 2/SPOCK2 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 327403

Catalog Number: FAB2328S

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Testican 2/SPOCK2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Testican 1 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 327403
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Testican 2/SPOCK2 Glu23-Trp424 Accession # Q92563
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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 2 encoded by the SPOCK2 gene is a proteoglycan highly expressed in brain (1, 2). The human and mouse cDNAs predict 94% identity between the deduced amino acid sequences from the two species, indicating a conserved function (3, 4). Testican 2 contains a Ca^{2+}-binding domain and a 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. However, these domains may not be involved directly in the inhibition of targeted proteases. For example, Testican 2 is not able to inhibit MMP-14 (MT1-MMP, a metalloprotease) activation of MMP-2 (5). Nonetheless, overexpression of Testican 2 is able to abrogate inhibition of MMP-14 by other testican family members and to inhibit neurite outgrowth (6, 7).

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