Mouse Soggy-1/DkkL1 Alexa Fluor® 405-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 192425

Catalog Number: FAB1508V

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Soggy-1/DkkL1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Soggy-1/DkkL1 is observed.
Source	Monoclonal Rat IgG_{2B} Clone # 192425
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Soggy-1/DkkL1 Leu21-Leu230 Accession # AAF02679
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

Soggy-1, also known as DkkL1 (Dickkopf-like 1), is a secreted protein that is related to the Dickkopf family of Wnt antagonists. Dkk-1, -2, -3, and -4 each have two cysteine-rich domains separated by a linker. Soggy-1 does not contain cysteine-rich domains but bears some sequence homology with the N-terminal regions of Dkk proteins (1, 2). The mouse Soggy-1 cDNA encodes a 230 amino acid (aa) precursor that includes a 20 aa signal sequence (2). Mouse Soggy-1 shares 65% and 90% aa sequence identity with human and rat Soggy-1, respectively, and approximately 15% aa sequence identity with mouse Dkk-1, -2, -3, and -4. Mouse Soggy-1 is expressed at various sites in the embryo but in the adult is primarily found in the testes (3-5). Soggy-1 transcription is regulated by the spermatocyte specific factor, RFX2 (6). The regulatory elements for Soggy-1 lie very close to those of TEAD-2, a transcription factor that is expressed very early in development (4). Soggy-1 and TEAD-2 are co-expressed in preimplantation embryos and embryonic stem cells, but differentiated cells express only one or the other (4, 5). During development, Soggy-1 is first detectable at the onset of sexual differentiation (4). Soggy-1 is localized to the acrosome in developing spermatocytes and mature spermatozoa (3, 4). Soggy-1, as expressed in developing mouse spermatocytes, is a 34 kDa N-glycosylated protein. This glycosylation is not present on Soggy-1 in mature spermatozoa, although the apparent molecular weight suggests the presence of some post-translational modification (3). Two shorter forms of Soggy-1 have been described that result from the use of internal methionine residues for initiation (4).

PRODUCT SPECIFIC NOTICES

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