

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                                                   |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2B</sub> Clone # 192425                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Soggy-1/DkkL1<br>Leu21-Leu230<br>Accession # AAF02679                                                                                                                                                                 |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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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