

Mouse Soggy-1/DkkL1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1508

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse Soggy-1/DkkL1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human Soggy-1 is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Soggy-1/DkkL1 Leu21-Leu230 Accession # AAF02679	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

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.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA Western Blot Detection of Mouse Soggy-1/DkkL1 by Western Blot. Western blot shows lysate of mouse testis tissue. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Mouse 250 Soggy-1/DkkL1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1508) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Soggy-1/DkkL1 at approximately 34 kDa (as indicated). This experiment was conducted 25 under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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).

References:

- 1. Kawano, Y. and R. Kypta (2003) J. Cell Sci. 116:2627.
- Krupnik, V.E. et al. (1999) Gene 238:301.
- Kohn, M.J. et al. (2005) Mol. Reprod. Dev. 71:516.
- 4. Kaneko, K.J. and M.L. DePamphilis (2000) Nucleic Acids Res. 28:3982
- 5. Kaneko, K.J. et al. (2004) Mol. Cell. Biol. 24:1968.
- 6. Horvath, G.C. et al. (2004) Biol. Reprod. 71:1551.

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