

Soggy-1 (C-13): sc-46521

BACKGROUND

The Wnt genes, a group of well-conserved, cysteine-rich, secreted glycoproteins, are required for numerous developmental processes, including embryogenesis, asymmetric cell division and central nervous system (CNS) patterning. The association of the Wnt protein with the seven membrane spanning receptor frizzled activates dishevelled, which downregulates glycogen synthase kinase (GSK) through serine phosphorylation. Reduced levels of active GSK results in the accumulation of β -catenin and subsequent regulation of developmentally significant Wnt target genes. Wnt antagonists, which include Dickkopf (Dkk1-4), Soggy-1 (also designated DkkL1), frizzled-related protein (sFRP) and Wnt inhibitory factor-1 (WIF-1), are necessary to ensure normal spatial and temporal patterns of Wnt activity during developmental processes. Soggy-1 is a secreted antagonist of Wnt expressed in preimplantation mouse embryos and developing neural tissue, as well as adult testis tissue. Soggy-1 is subjected to posttranslational modification by glycosylation; additional modifications have been observed and are yet to be characterized. The molecular weight of Soggy-1 has been observed to vary depending on tissue and cell type.

CHROMOSOMAL LOCATION

Genetic locus: DKKL1 (human) mapping to 19q13.33; Dkk1 (mouse) mapping to 7 B4.

SOURCE

Soggy-1 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Soggy-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-46521 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Soggy-1 (C-13) is recommended for detection of Soggy-1 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Soggy-1 (C-13) is also recommended for detection of Soggy-1 in additional species, including bovine.

Suitable for use as control antibody for Soggy-1 siRNA (h): sc-45755, Soggy-1 siRNA (m): sc-45756, Soggy-1 shRNA Plasmid (h): sc-45755-SH, Soggy-1 shRNA Plasmid (m): sc-45756-SH, Soggy-1 shRNA (h) Lentiviral Particles: sc-45755-V and Soggy-1 shRNA (m) Lentiviral Particles: sc-45756-V.

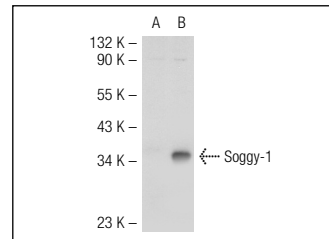
Molecular Weight of Soggy-1: 25-35 kDa.

Positive Controls: Soggy-1 (m): 293T Lysate: sc-127566 or mouse testis extract: sc-2405.

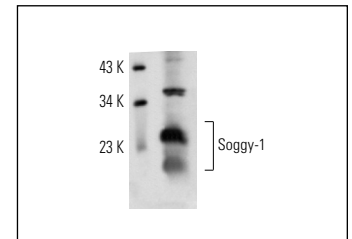
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Soggy-1 (C-13): sc-46521. Western blot analysis of Soggy-1 expression in non-transfected: sc-117752 (A) and mouse Soggy-1 transfected: sc-127566 (B) 293T whole cell lysates.



Soggy-1 (C-13): sc-46521. Western blot analysis of Soggy-1 expression in mouse testis tissue extract.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **Soggy-1 (E-12): sc-271563** or **Soggy-1 (H-11): sc-515409**, our highly recommended monoclonal alternatives to Soggy-1 (C-13).