

# WISP-2 (C-18): sc-8868

## BACKGROUND

Wnt-induced secreted protein (WISP)-1 and WISP-2 are members of the CCN family of growth factors, which include connective tissue growth factor (CTGF) and Cyr61. WISP-1, WISP-2, and WISP-3 share significant sequence similarity, including four conserved cysteine-rich domains, and they are believed to function as dimers in their active forms. WISP-1 expression is observed in various tissues including adult heart, kidney and spleen, while WISP-2 expression predominates in skeletal muscle, colon and ovary. Both WISP-1 and WISP-2 are upregulated in cells transformed with the proto-oncogene Wnt-1, and they are also more highly expressed in human colon tumors, suggesting that these proteins may participate in tumor development. WISP-3 is involved in normal postnatal skeletal growth, and it is also implicated in the development of the autosomal recessive skeletal disorder progressive pseudorheumatoid dysplasia, which affects cartilage homeostasis by disrupting the growth of chondrocyte and normal cell columnar organization.

## REFERENCES

1. Shimizu, H., et al. 1997. Transformation by Wnt family proteins correlates with regulation of  $\beta$ -catenin. *Cell Growth Differ.* 8: 1349-1358.
2. el-Shanti, H.E., et al. 1997. Progressive pseudorheumatoid dysplasia: report of a family and review. *J. Med. Genet.* 34: 559-563.

## CHROMOSOMAL LOCATION

Genetic locus: WISP2 (human) mapping to 20q13.12.

## SOURCE

WISP-2 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of WISP-2 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-8868 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

WISP-2 (C-18) is recommended for detection of WISP-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

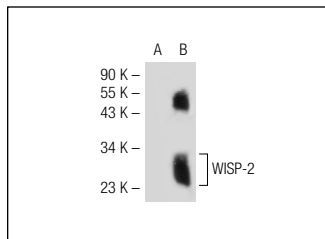
Suitable for use as control antibody for WISP-2 siRNA (h): sc-39337, WISP-2 shRNA Plasmid (h): sc-39337-SH and WISP-2 shRNA (h) Lentiviral Particles: sc-39337-V.

Positive Controls: HeLa whole cell lysate: sc-2200 or WISP-2 (h2): 293T lysate: sc-116953.

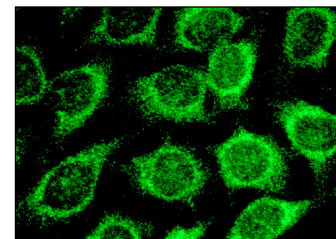
## RECOMMENDED SECONDARY REAGENTS

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



WISP-2 (C-18): sc-8868. Western blot analysis of WISP-2 expression in non-transfected: sc-117752 (A) and human WISP-2 transfected: sc-116953 (B) 293T whole cell lysates.



WISP-2 (C-18): sc-8868. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

1. Davies, S.R., et al. 2007. Differential expression and prognostic implications of the CCN family members WISP-1, WISP-2 and WISP-3 in human breast cancer. *Ann. Surg. Oncol.* 14: 1909-1918.
2. Davies, S.R., et al. 2010. Differential expression of the CCN family member WISP-1, WISP-2 and WISP-3 in human colorectal cancer and the prognostic implications. *Int. J. Oncol.* 36: 1129-1136.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **WISP-2 (B-5): sc-514070**, our highly recommended monoclonal alternative to WISP-2 (C-18).