scc-112 (S-20): sc-50782



The Power to Question

BACKGROUND

scc-112 is a nuclear cell-cycle regulated protein that is comprised of 1,297 amino acids. scc-112 mRNA and protein levels are detected at high levels during the $\rm G_2/M$ phase of the cell cycle in MDA-MB 435 breast cancer cells. scc-112 protein expression is also high in normal renal tissues as compared to the equilvalent renal tumor tissues. The level of scc-112 in normal kidney and breast tissues is significantly higher than in corresponding tumor tissues, suggesting that scc-112 is downregulated in tumor tissues and that scc-112 gene expression is associated with normal cell growth and proliferations. The human scc-112 protein is homologus to the mouse 9030416H16Rik protein. SCC-112, the gene which encodes the human scc-112 protein, maps to chromosome 4p14.

REFERENCES

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- Kumar, D., Sakabe, I., Patel, S., Zhang, Y., Ahmad, I., Gehan, E.A., Whiteside, T.L. and Kasid. U. 2004. scc-112, a novel cell cycle-regulated molecule, exhibits reduced expression in human renal carcinomas. Gene 328: 187-196.
- 3. Okazaki, N., F-Kikuno, R., Ohara, R., Inamoto, S., Koseki, H., Hiraoka, S., Saga, Y., Seino, S., Nishimura, M., Kaisho, T., Hoshino, K., Kitamura, H., Nagase, T., Ohara, O. and Koga, H. 2004. Prediction of the coding sequences of mouse homologues of KIAA gene: IV. The complete nucleotide sequences of 500 mouse KIAA-homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries. DNA Res. 11: 205-218.

CHROMOSOMAL LOCATION

Genetic locus: PDS5A (human) mapping to 4p14.

SOURCE

scc-112 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of scc-112 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50782 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

scc-112 (S-20) is recommended for detection of scc-112 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

scc-112 (S-20) is also recommended for detection of scc-112 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for scc-112 siRNA (h): sc-61497, scc-112 shRNA Plasmid (h): sc-61497-SH and scc-112 shRNA (h) Lentiviral Particles: sc-61497-V.

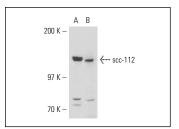
Molecular Weight of scc-112: 150 kDa.

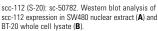
Positive Controls: SW480 nuclear extract: sc-2155 or BT-20 cell lysate: sc-2223.

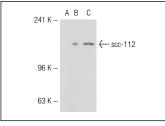
RECOMMENDED SECONDARY REAGENTS

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







scc-112 (S-20): sc-50782. Western blot analysis of scc-112 expression in non-transfected: sc-117752 (A) and human scc-112 transfected: sc-112030 (B) 293T whole cell lysates and SW480 nuclear extract (C).

PROTOCOLS

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