

# SSNA1 (FL-119): sc-292043

## BACKGROUND

SSNA1 (sjogren syndrome nuclear autoantigen 1), also known as N14 or NA-14 (nuclear autoantigen of 14 kDa), is a 119 amino acid nuclear and cyto-plasmic protein that is widely expressed and belongs to the SSNA1 family. While most highly expressed in testes, SSNA1 is found at lower levels in peripheral blood leukocytes, spleen, colon, thymus, ovary, prostate and small intestine, and is thought to be associated with microtubule structures. SSNA1 contains an N-terminal dimeric coiled-coil domain, a C-terminal basic domain and may target spastin activity at the centrosome. The gene encoding SSNA1 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

## REFERENCES

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- Zeit, M.J., et al. 2009. Organization of the amplified type I interferon gene cluster and associated chromosome regions in the interphase nucleus of human osteosarcoma cells. *Chromosome Res.* 17: 305-319.

## CHROMOSOMAL LOCATION

Genetic locus: SSNA1 (human) mapping to 9q34.3; Ssna1 (mouse) mapping to 2 A3.

## SOURCE

SSNA1 (FL-119) is a rabbit polyclonal antibody raised against amino acids 1-119 representing full length SSNA1 of human origin.

## PRODUCT

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

## APPLICATIONS

SSNA1 (FL-119) is recommended for detection of SSNA1 of mouse, rat and 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).

SSNA1 (FL-119) is also recommended for detection of SSNA1 in additional species, including canine and bovine.

Suitable for use as control antibody for SSNA1 siRNA (h): sc-92613, SSNA1 siRNA (m): sc-153846, SSNA1 shRNA Plasmid (h): sc-92613-SH, SSNA1 shRNA Plasmid (m): sc-153846-SH, SSNA1 shRNA (h) Lentiviral Particles: sc-92613-V and SSNA1 shRNA (m) Lentiviral Particles: sc-153846-V.

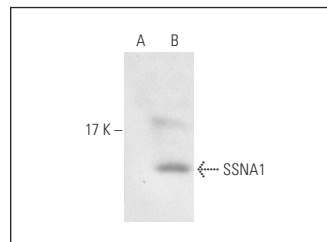
Molecular Weight of SSNA1: 14 kDa.

Positive Controls: SSNA1 (h): 293T Lysate: sc-110561.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



SSNA1 (FL-119): sc-292043. Western blot analysis of SSNA1 expression in non-transfected: sc-117752 (A) and human SSNA1 transfected: sc-110561 (B) 293T whole cell lysates.

## 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.