SANTA CRUZ BIOTECHNOLOGY, INC.

Psf2 (FL-185): sc-98556

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Psf2, also known as GINS2 (GINS complex subunit 2), CGI-122, DC5 or HSPC037, is a 185 amino acid protein that localizes to the nucleus and exists as a mammalian homolog of yeast Psf2. Functioning as a component of the heterotrimeric GINS complex, Psf2 binds to single-stranded DNA and plays a crucial role in the initiation of DNA replication, as well as in the progression of DNA replication forks. Psf2 is subject to DNA damage-dependent phosphorylation, probably by ATM or ATR. The gene encoding Psf2 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

CHROMOSOMAL LOCATION

Genetic locus: GINS2 (human) mapping to 16q24.1; Gins2 (mouse) mapping to 8 E1.

SOURCE

Psf2 (FL-185) is a rabbit polyclonal antibody raised against amino acids 1-185 representing full length Psf2 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98556 X, 200 µg/0.1 ml.

APPLICATIONS

Psf2 (FL-185) is recommended for detection of Psf2 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).

Psf2 (FL-185) is also recommended for detection of Psf2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Psf2 siRNA (h): sc-76263, Psf2 siRNA (m): sc-76264, Psf2 shRNA Plasmid (h): sc-76263-SH, Psf2 shRNA Plasmid (m): sc-76264-SH, Psf2 shRNA (h) Lentiviral Particles: sc-76263-V and Psf2 shRNA (m) Lentiviral Particles: sc-76264-V.

Psf2 (FL-185) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of Psf2: 21 kDa.

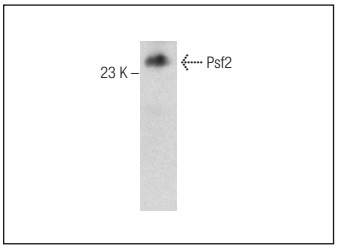
Molecular Weight (observed) of Psf2: 21-24 kDa.

Positive Controls: rat skeletal muscle extract: sc-364810 or Hep G2 cell lysate: sc-2227.

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



Psf2 (FL-185): sc-98556. Western blot analysis of Psf2 expression in rat skeletal muscle 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.