

## PSIP1 (C-16): sc-33371

### BACKGROUND

PSIP1 (PC4 and SFRS1 interacting protein 1), also known as CLL-associated antigen KW-7, PSIP2, LEDGF (lens epithelium-derived growth factor), PAIP, DFS70 (dense fine speckles 70 kDa protein) or transcriptional coactivator p75/p52, is a 530 amino acid nuclear protein that associates with chromatin throughout the cell cycle. Functioning as a transcriptional coactivator that complexes with the human immunodeficiency virus type 1 (HIV-1) integrase, PSIP1 is essential for the nuclear localization and chromosomal association of viral proteins. As the primary integrase-to-chromatin tethering factor for HIV-1, PSIP1 is responsible for the cellular trafficking of lentiviral integrases. During apoptosis, PSIP1 is cleaved at three sites by caspase-3 and caspase-7, contributing to the pathogenesis of atopic disorders.

### CHROMOSOMAL LOCATION

Genetic locus: PSIP1 (human) mapping to 9p22.3; Psp1 (mouse) mapping to 4 C3.

### SOURCE

PSIP1 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of PSIP1 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.

Blocking peptide available for competition studies, sc-33371 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-33371 X, 200 µg/0.1 ml.

### APPLICATIONS

PSIP1 (C-16) is recommended for detection of PSIP1 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).

PSIP1 (C-16) is also recommended for detection of PSIP1 in additional species, including equine, canine, bovine and feline.

Suitable for use as control antibody for PSIP1 siRNA (h): sc-44991, PSIP1 siRNA (m): sc-44992, PSIP1 shRNA Plasmid (h): sc-44991-SH, PSIP1 shRNA Plasmid (m): sc-44992-SH, PSIP1 shRNA (h) Lentiviral Particles: sc-44991-V and PSIP1 shRNA (m) Lentiviral Particles: sc-44992-V.

PSIP1 (C-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PSIP1 p52 isoform: 38 kDa.

Molecular Weight of PSIP1 p75 isoform: 60 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

### 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.

### SELECT PRODUCT CITATIONS

1. Sapoznik, S., et al. 2009. Gonadotropin-regulated lymphangiogenesis in ovarian cancer is mediated by LEDGF-induced expression of VEGF-C. *Cancer Res.* 69: 9306-9314.
2. Ishihara, K., et al. 2012. Lens epithelium-derived growth factor deSUMoylation by Sumo-specific protease-1 regulates its transcriptional activation of small heat shock protein and the cellular response. *FEBS J.* 279: 3048-3070.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



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Try **PSIP1 (3F7): sc-101087**, our highly recommended monoclonal alternative to PSIP1 (C-16).