

# SYF2 (H-154): sc-135409

## BACKGROUND

SYF2 (SYF2 homolog, RNA splicing factor), also known as CCNDBP1-interactor or p29, is a 243 amino acid protein belonging to the SYF2 family. Localizing to nucleus, SYF2 is highly expressed in heart, skeletal muscle and kidney. SYF2 is likely involved in pre-mRNA splicing and cell cycle progression, and may function as a DNA replication checkpoint regulator. The gene encoding SYF2 maps to human chromosome 1p36.11. As the largest human chromosome, chromosome 1 spans about 260 million base pairs and makes up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

## CHROMOSOMAL LOCATION

Genetic locus: SYF2 (human) mapping to 1p36.11; Syf2 (mouse) mapping to 4 D3.

## SOURCE

SYF2 (H-154) is a rabbit polyclonal antibody raised against amino acids 90-243 mapping at the C-terminus of SYF2 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-135409 X, 200 µg/0.1 ml.

## APPLICATIONS

SYF2 (H-154) is recommended for detection of SYF2 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).

SYF2 (H-154) is also recommended for detection of SYF2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SYF2 siRNA (h): sc-88280, SYF2 siRNA (m): sc-153971, SYF2 shRNA Plasmid (h): sc-88280-SH, SYF2 shRNA Plasmid (m): sc-153971-SH, SYF2 shRNA (h) Lentiviral Particles: sc-88280-V and SYF2 shRNA (m) Lentiviral Particles: sc-153971-V.

SYF2 (H-154) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of SYF2: 29 kDa.

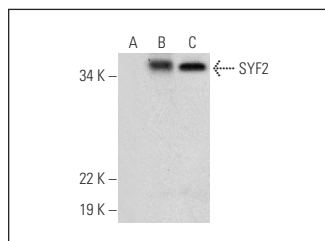
Molecular Weight (observed) of SYF2: 31-41 kDa.

Positive Controls: SYF2 (h): 293T Lysate: sc-172544 or Caki-1 cell lysate: sc-2224.

## 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



SYF2 (H-154): sc-135409. Western blot analysis of SYF2 expression in non-transfected 293T: sc-117752 (A), human SYF2 transfected 293T: sc-172544 (B) and Caki-1 (C) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Zhu, J., et al. 2014. Upregulation of SYF2 in esophageal squamous cell carcinoma promotes tumor cell proliferation and predicts poor prognosis. *Tumour Biol.* 35: 10275-10285.
- Liu, Y., et al. 2015. Involvement of p29/SYF2/fSAP29/NTC31 in the progression of NSCLC via modulating cell proliferation. *Pathol. Res. Pract.* 211: 36-42.

## 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.



Try **SYF2 (B-11): sc-393109**, our highly recommended monoclonal alternative to SYF2 (H-154).