SANTA CRUZ BIOTECHNOLOGY, INC.

SYF2 (B-11): sc-393109

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 (B-11) is a mouse monoclonal antibody raised against amino acids 90-243 mapping at the C-terminus of SYF2 of human origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain 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-393109 X, 200 µg/0.1 ml.

APPLICATIONS

SYF2 (B-11) is recommended for detection of SYF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 (B-11) is also recommended for detection of SYF2 in additional species, including equine.

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 (B-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of SYF2: 29 kDa.

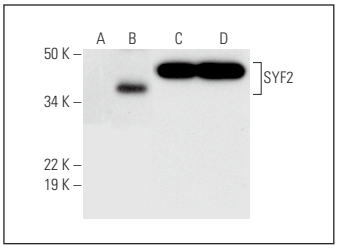
Molecular Weight (observed) of SYF2: 31-41 kDa.

Positive Controls: SYF2 (h): 293T Lysate: sc-172544, mouse heart extract: sc-2254 or human heart extract: sc-363763.

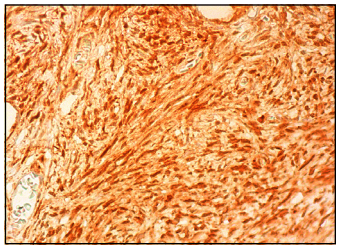
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



SYF2 (B-11): sc-393109. Western blot analysis of SYF2 expression in non-transfected: sc-117752 (**A**) and human SYF2 transfected: sc-172544 (**B**) 293T whole cell lysates and mouse heart (**C**) and human heart (**D**) tissue extracts.



SYF2 (B-11): sc-393109. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing nuclear and cytoplasmic staining of ovarian stroma cells.

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 for detailed protocols and support products.