SANTA CRUZ BIOTECHNOLOGY, INC.

TFIP11 (C-7): sc-393081

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The Power to Question

BACKGROUND

TFIP11 (tuftelin-interacting protein 11), also known as NTR1, TIP39, STIP or hNtr1, is an 837 amino acid protein that belongs to the TFP11/STIP family. TFIP11 localizes to the nucleus as well as the cytoplasm and contains one G-patch domain, which is suggested to be a highly conserved domain of many RNA-processing proteins. Considered a novel splicing factor, TFIP11 may be involved in spliceosome disassembly and may act as a subnuclear storage compartment for splicing components. As a possible enamel protein, TFIP11 is thought to play a role in the differentiation of ameloblasts and odontoblasts or in the formation of the enamel extracellular matrix. Two isforms of TFIP11 exists due to alternative splicing events.

REFERENCES

1. Usdin, T.B., et al. 2000. New members of the parathyroid hormone/parathyroid hormone receptor family: the parathyroid hormone 2 receptor and tuberoinfundibular peptide of 39 residues. Front. Neuroendocrinol. 21: 349-383.
2. Paine, C.T., et al. 2000. A tuftelin-interacting protein (TIP39) localizes to the apical secretory pole of mouse ameloblasts. J. Biol. Chem. 275: 22284-22292.
3. Usdin, T.B., et al. 2002. The parathyroid hormone 2 (PTH2) receptor. Recept. Channels 8: 211-218.
4. Wen, X., et al. 2005. Structural organization and cellular localization of tuftelin-interacting protein 11 (TFIP11). Cell. Mol. Life Sci. 62: 1038-1046.

CHROMOSOMAL LOCATION

Genetic locus: TFIP11 (human) mapping to 22q12.1; Tfip11 (mouse) mapping to 5 F.

SOURCE

TFIP11 (C-7) is a mouse monoclonal antibody raised against amino acids 538-837 mapping at the C-terminus of TFIP11 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TFIP11 (C-7) is available conjugated to agarose (sc-393081 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393081 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393081 PE), fluorescein (sc-393081 FITC), Alexa Fluor® 488 (sc-393081 AF488), Alexa Fluor® 546 (sc-393081 AF546), Alexa Fluor® 594 (sc-393081 AF594) or Alexa Fluor® 647 (sc-393081 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393081 AF680) or Alexa Fluor® 790 (sc-393081 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

TFIP11 (C-7) is recommended for detection of TFIP11 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TFIP11 (C-7) is also recommended for detection of TFIP11 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TFIP11 siRNA (h): sc-76671, TFIP11 siRNA (m): sc-154236, TFIP11 shRNA Plasmid (h): sc-76671-SH, TFIP11 shRNA Plasmid (m): sc-154236-SH, TFIP11 shRNA (h) Lentiviral Particles: sc-76671-V and TFIP11 shRNA (m) Lentiviral Particles: sc-154236-V.

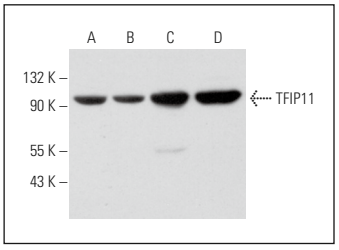
Molecular Weight of TFIP11: 97 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HEK293 whole cell lysate: sc-45136 or Hep G2 cell lysate: sc-2227.

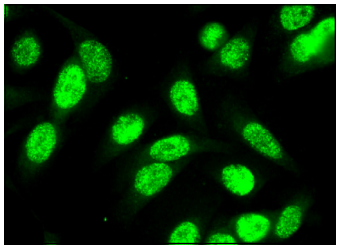
RECOMMENDED SUPPORT REAGENTS

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 A/G PLUS-Agarose: sc-2003 (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.

DATA



TFIP11 (C-7): sc-393081. Western blot analysis of TFIP11 expression in MCF7 (**A**), Hep G2 (**B**), Jurkat (**C**) and HEK293 (**D**) whole cell lysates.



TFIP11 (C-7): sc-393081. Immunofluorescence staining of formalin-fixed SW480 cells showing nuclear localization.

SELECT PRODUCT CITATIONS

1. Klimešová, K., et al. 2023. SART3 associates with a post-splicing complex. J. Cell Sci. 136: jcs260380.

RESEARCH USE

For research use only, not for use in diagnostic procedures.