SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM66 (A-9): sc-515177

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM proteins are involved in a wide variety of cellular processes such as cell development, proliferation, differentiation, oncogenesis and apoptosis. TRIM66 (tripartite motif-containing protein 66), also known as TIF1D, C11orf29 or KIAA0298, is a 1,216 amino acid protein belonging to the TRIM family, and contains two B box-type zinc fingers, one bromo domain, and one PHD-type zinc finger. Localizing to nucleus, TRIM66 is strongly expressed in testis, thymus, and kidney, with moderate expression in prostate and ovary. TRIM66 may form individual foci in the centrometric chromocenter and the surrounding nucleoplasm, and may also function as a transcription repressor, mediated by recruitment of deacetylase activity, and as a negative regulator of postmelotic genes. Existing as two alternatively spliced isoforms, the gene encoding TRIM66 maps to human chromosome 11p15.4.

REFERENCES

1. Nagase, T., et al. 1997. Prediction of the coding sequences of unidentified human genes. VII. The complete sequences of 100 new cDNA clones from brain which can code for large proteins *in vitro*. DNA Res. 4: 141-150.
2. Khetchoumian, K., et al. 2004. TIF1δ, a novel HP1-interacting member of the transcriptional intermediary factor 1 (TIF1) family expressed by elongating spermatids. J. Biol. Chem. 279: 48329-48341.

CHROMOSOMAL LOCATION

Genetic locus: TRIM66 (human) mapping to 11p15.4; Trim66 (mouse) mapping to 7 E3.

SOURCE

TRIM66 (A-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1006-1026 within an internal region of TRIM66 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRIM66 (A-9) is available conjugated to agarose (sc-515177 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515177 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515177 PE), fluorescein (sc-515177 FITC), Alexa Fluor® 488 (sc-515177 AF488), Alexa Fluor® 546 (sc-515177 AF546), Alexa Fluor® 594 (sc-515177 AF594) or Alexa Fluor® 647 (sc-515177 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515177 AF680) or Alexa Fluor® 790 (sc-515177 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-515177 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

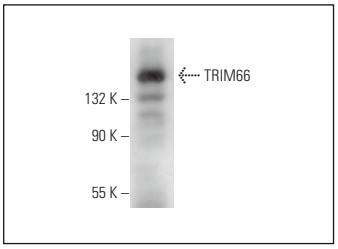
TRIM66 (A-9) is recommended for detection of TRIM66 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRIM66 siRNA (h): sc-96990, TRIM66 siRNA (m): sc-154666, TRIM66 shRNA Plasmid (h): sc-96990-SH, TRIM66 shRNA Plasmid (m): sc-154666-SH, TRIM66 shRNA (h) Lentiviral Particles: sc-96990-V and TRIM66 shRNA (m) Lentiviral Particles: sc-154666-V.

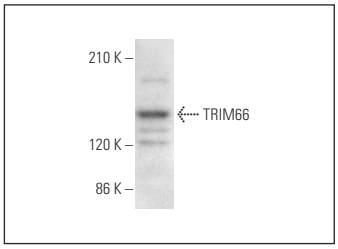
Molecular Weight of TRIM66 isoforms 1/2: 135/134 kDa.

Positive Controls: A549 cell lysate: sc-2413 or AN3 CA cell lysate: sc-24662.

DATA



TRIM66 (A-9): sc-515177. Western blot analysis of TRIM66 expression in A549 whole cell lysate.



TRIM66 (A-9): sc-515177. Western blot analysis of TRIM66 expression in AN3 CA whole cell lysate.

SELECT PRODUCT CITATIONS

1. Chen, L., et al. 2024. Circ-SATB2 (hsa_circ_0008928) and miR-150-5p are regulators of TRIM66 in the regulation of NSCLC cell growth and metastasis of NSCLC cells via the ceRNA pathway. J. Biochem. Mol. Toxicol. 38: e23615.
2. Jang, S.H., et al. 2024. XAF1 antagonizes TRIM28 activity through the assembly of a ZNF313-mediated destruction complex to suppress tumor malignancy. Mol. Biomed. 5: 58.

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.