SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM66 (T-14): sc-241093

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. TIF1delta, a novel HP1-interacting member of the transcriptional intermediary factor 1 (TIF1) family expressed by elongating spermatids. J. Biol. Chem. 279: 48329-48341.
3. Taylor, T.D., et al. 2006. Human chromosome 11 DNA sequence and analysis including novel gene identification. Nature 440: 497-500.
4. van der Aa, L.M., et al. 2009. A large new subset of TRIM genes highly diversified by duplication and positive selection in teleost fish. BMC Biol. 7: 7.
5. Munir, M. 2010. TRIM proteins: another class of viral victims. Sci. Signal. 3: jc2.

CHROMOSOMAL LOCATION

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

SOURCE

TRIM66 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM66 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-241093 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

TRIM66 (T-14) is recommended for detection of TRIM66 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); non cross-reactive with other TRIM family members.

TRIM66 (T-14) is also recommended for detection of TRIM66 in additional species, including equine, canine, bovine and porcine.

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.

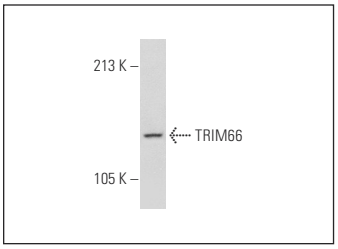
Molecular Weight of TRIM66 isoforms 1/2: 135/134 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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.

DATA



TRIM66 (T-14): sc-241093. Western blot analysis of TRIM66 expression in HeLa nuclear extract.

RESEARCH USE

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