SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM16 (E-20): sc-79770

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. TRIM16 (tripartite motif-containing 16), also known as EBBP (estrogen-responsive B box protein), is a 564 amino acid protein that belongs to the TRIM family and contains 2 B box-type zinc fingers and one B30.2/SPRY domain. TRIM16 is highly expressed in testis, ovary, small intestine, colon, placenta, heart, skeletal muscle and mammary gland. However, it is more highly expressed in fetus than in the corresponding adult tissues. TRIM16 is also expressed in basal keratinocytes, where it is thought to play a role in the regulation of keratinocyte differentiation. Overexpression of TRIM16 has been shown to increase histone acetylation in retinoid-resistant cancer cells and therefore may be a potential target for therapeutic drugs.

CHROMOSOMAL LOCATION

Genetic locus: TRIM16 (human) mapping to 17p12; Trim16 (mouse) mapping to 11 B2.

SOURCE

TRIM16 (E-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM16 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-79770 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

TRIM16 (E-20) is recommended for detection of TRIM16 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).

TRIM16 (E-20) is also recommended for detection of TRIM16 in additional species, including canine and bovine.

Suitable for use as control antibody for TRIM16 siRNA (h): sc-76740, TRIM16 siRNA (m): sc-76741, TRIM16 shRNA Plasmid (h): sc-76740-SH, TRIM16 shRNA Plasmid (m): sc-76741-SH, TRIM16 shRNA (h) Lentiviral Particles: sc-76740-V and TRIM16 shRNA (m) Lentiviral Particles: sc-76741-V.

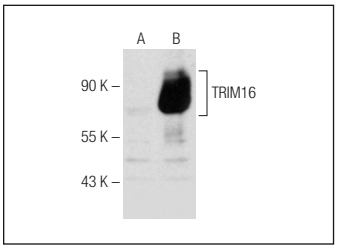
Molecular Weight of TRIM16 isoform 1/2: 64/40 kDa.

Positive Controls: TRIM16 (h): 293T Lysate: sc-370211.

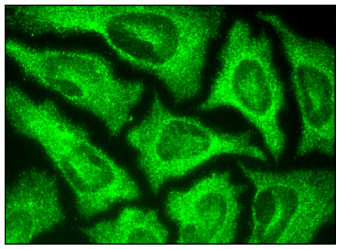
RECOMMENDED SECONDARY REAGENTS

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



TRIM16 (E-20): sc-79770. Western blot analysis of TRIM16 expression in non-transfected: sc-117752 (**A**) and human TRIM16 transfected: sc-370211 (**B**) 293T whole cell lysates.



TRIM16 (E-20): sc-79770. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **TRIM16 (B-6): sc-398851** or **TRIM16 (5-RY8): sc-135586**, our highly recommended monoclonal alternatives to TRIM16 (E-20).