SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM50 (Q-14): sc-163473

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. TRIM50 (tripartite motif containing 50), also known as TRIM50A or E3 ubiquitin-protein ligase TRIM50, is a 487 amino acid cytoplasmic protein that functions as an E3 ubiquitin-protein ligase. Containing one RING-type zinc finger, a B30.2/SPRY domain and a single B box-type zinc finger, TRIM50 belongs to the TRIM/RBCC family and undergoes post-translational auto-ubiquitination. TRIM50 exists as two alternatively spliced isoforms, designated TRIM50 α and TRIM50 β, and has the ability to form dimers and trimers. The gene encoding TRIM50 maps to human chromosome 7, which houses over 1,000 genes, comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM50 (human) mapping to 7q11.23; Trim50 (mouse) mapping to 5 G2.

SOURCE

TRIM50 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM50 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-163473 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRIM50 (Q-14) is recommended for detection of TRIM50 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 antibodies.

TRIM50 (Q-14) is also recommended for detection of TRIM50 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TRIM50 siRNA (h): sc-89769, TRIM50 siRNA (m): sc-154656, TRIM50 shRNA Plasmid (h): sc-89769-SH, TRIM50 shRNA Plasmid (m): sc-154656-SH, TRIM50 shRNA (h) Lentiviral Particles: sc-89769-V and TRIM50 shRNA (m) Lentiviral Particles: sc-154656-V.

Molecular Weight of TRIM50: 55 kDa.

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) 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.

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 or our catalog for detailed protocols and support products.