SANTA CRUZ BIOTECHNOLOGY, INC.

WDR79 (T-16): sc-244648

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. WDR79 (WD repeat-containing protein 79), also known as TCAB1 or WRAP53, is a 548 amino acid nuclear protein that is expressed in all tissues. WDR79 is a component of the telomerase holoenzyme complex, which is a ribonucleoprotein complex that is essential for replication of chromosome termini that elongates telomeres in most eukaryotes and controls telomerase localization to Cajal body. The mRNA encoding WDR79 plays a critical role in maintaining basal p53 mRNA levels and in p53 induction upon DNA damage.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WRAP53 (human) mapping to 17p13.1; Wrap53 (mouse) mapping to 11 B3.

SOURCE

WDR79 (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of WDR79 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-244648 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR79 (T-16) is recommended for detection of WDR79 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 WDR family members.

WDR79 (T-16) is also recommended for detection of WDR79 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for WDR79 siRNA (h): sc-93974, WDR79 siRNA (m): sc-155319, WDR79 shRNA Plasmid (h): sc-93974-SH, WDR79 shRNA Plasmid (m): sc-155319-SH, WDR79 shRNA (h) Lentiviral Particles: sc-93974-V and WDR79 shRNA (m) Lentiviral Particles: sc-155319-V.

Molecular Weight of WDR79: 59 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.