SANTA CRUZ BIOTECHNOLOGY, INC.

WDR48 (K-14)-R: sc-99718-R

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, which 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 involving signal transduction, apoptosis, transcriptional regulation and cell cycle control. WD repeats serve as sites for protein-protein interaction and some seem to mediate the assembly of protein complexes. With eight WD repeats, WDR48 (WD repeat-containing protein 48), also known as USP1-associated factor 1 and p80, is a 677 amino acid protein that functions to regulate deubiquitinating complexes via activation of USP1, USP12 and USP46. WDR48 enhances deubiquitination by increasing catalytic turnover without increasing the affinity of deubiquitinating enzymes for the substrate. WDR48 is ubiquitously expressed and is mainly localized to the cytoplasm. There are five isoforms of WDR48 that are expressed as a result of alternative splicing events.

REFERENCES

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: WDR48 (human) mapping to 3p22.2; Wdr48 (mouse) mapping to 9 F4.

SOURCE

WDR48 (K-14)-R is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of WDR48 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-99718 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR48 (K-14)-R is recommended for detection of WDR48 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.

WDR48 (K-14)-R is also recommended for detection of WDR48 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WDR48 siRNA (h): sc-77917, WDR48 siRNA (m): sc-155290, WDR48 shRNA Plasmid (h): sc-77917-SH, WDR48 shRNA Plasmid (m): sc-155290-SH, WDR48 shRNA (h) Lentiviral Particles: sc-77917-V and WDR48 shRNA (m) Lentiviral Particles: sc-155290-V.

Molecular Weight of WDR48: 76 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

PROTOCOLS

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