

WDR32 (W-12): sc-137917

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. WDR32 (WD-repeat-containing protein 32), also known as DCAF10, is a 559 amino acid protein that contains 7 WD-repeats. There are two isoforms of WDR32 that are expressed as a result of alternative splicing events. A probable substrate receptor for CUL-DDB1 E3 ubiquitin-protein ligase complex, WDR32 is suggested to interact with DDB1. WDR32 is encoded by a gene mapping to human chromosome 9p13.2. Human chromosome 9 houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DCAF10 (human) mapping to 9p13.2; Dcaf10 (mouse) mapping to 4 B1.

SOURCE

WDR32 (W-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WDR32 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-137917 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR32 (W-12) is recommended for detection of WDR32 isoforms 1 and 2 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.

WDR32 (W-12) is also recommended for detection of WDR32 isoforms 1 and 2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WDR32 siRNA (h): sc-92806, WDR32 siRNA (m): sc-155274, WDR32 shRNA Plasmid (h): sc-92806-SH, WDR32 shRNA Plasmid (m): sc-155274-SH, WDR32 shRNA (h) Lentiviral Particles: sc-92806-V and WDR32 shRNA (m) Lentiviral Particles: sc-155274-V.

Molecular Weight of WDR32 isoforms: 61/57 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.