

WDR6 (S-18): sc-99720

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. WDR6 (WD repeat-containing protein 6) is a 1,121 amino acid protein that contains 11 WD repeats, which are clustered into two distinct groups separated by a transmembrane domain. Displaying high expression in the hypothalamus, WDR6 levels appear to decrease with caloric restriction. Through involvement with the Insulin/IGF-I signaling pathway, WDR6 may play a role in feeding behavior regulation and longevity in the brain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WDR6 (human) mapping to 3p21.31.

RESEARCH USE

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

SOURCE

WDR6 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WDR6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99720 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR6 (S-18) is recommended for detection of WDR6 of 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.

WDR6 (S-18) is also recommended for detection of WDR6 in additional species, including canine.

Suitable for use as control antibody for WDR6 siRNA (h): sc-78080, WDR6 shRNA Plasmid (h): sc-78080-SH and WDR6 shRNA (h) Lentiviral Particles: sc-78080-V.

Molecular Weight of WDR6: 122 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.

PROTOCOLS

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