

# WDR16 (G-14): sc-169804

## 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. WDR16 (WD repeat domain 16), also known as WDRPUH, is a 620 amino acid cytoplasmic protein that is highly expressed in testis and up-regulated in hepatocellular carcinoma (HCC). Containing eleven WD repeats, WDR16 may play an essential role in the growth or survival of HCC. WDR16 exists as three alternatively spliced isoforms and is encoded by a gene located on human chromosome 17p13.1.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: WDR16 (human) mapping to 17p13.1; Wdr16 (mouse) mapping to 11 B3.

## SOURCE

WDR16 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WDR16 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-169804 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

WDR16 (G-14) is recommended for detection of WDR16 of mouse 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.

WDR16 (G-14) is also recommended for detection of WDR16 in additional species, including equine and porcine.

Suitable for use as control antibody for WDR16 siRNA (h): sc-93611, WDR16 siRNA (m): sc-155259, WDR16 shRNA Plasmid (h): sc-93611-SH, WDR16 shRNA Plasmid (m): sc-155259-SH, WDR16 shRNA (h) Lentiviral Particles: sc-93611-V and WDR16 shRNA (m) Lentiviral Particles: sc-155259-V.

Molecular Weight of WDR16 isoforms: 68/70/61 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](http://www.scbt.com) or our catalog for detailed protocols and support products.