# WDTC1 (E-14): sc-160917



The Power to Question

#### **BACKGROUND**

WDTC1 (WD and tetratricopeptide repeats 1), also known as ADP or DCAF9, is a 677 amino acid protein that contains seven WD repeats, two TPR repeats and exists as six alternatively spliced isoforms. WDTC1 is the human ortholog of *Drosophila adp* (adipose), an obesity gene involved in fat storage. WDTC1 is encoded by a gene located on human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

## **REFERENCES**

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- Häder, T., et al. 2003. Control of triglyceride storage by a WD40/TPR-domain protein. EMBO Rep. 4: 511-516.
- Angers, S., et al. 2006. Molecular architecture and assembly of the DDB1-CUL4A ubiquitin ligase machinery. Nature 443: 590-593.
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- Balcárková, J., et al. 2009. Gain of chromosome arm 1q in patients in relapse and progression of multiple myeloma. Cancer Genet. Cytogenet. 192: 68-72.
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## **CHROMOSOMAL LOCATION**

Genetic locus: WDTC1 (human) mapping to 1p36.11; Wdtc1 (mouse) mapping to 4 D2.3.

# SOURCE

WDTC1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WDTC1 of human origin.

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-160917 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **RESEARCH USE**

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

#### **APPLICATIONS**

WDTC1 (E-14) is recommended for detection of WDTC1 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).

WDTC1 (E-14) is also recommended for detection of WDTC1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WDTC1 siRNA (h): sc-88033, WDTC1 siRNA (m): sc-155332, WDTC1 shRNA Plasmid (h): sc-88033-SH, WDTC1 shRNA Plasmid (m): sc-155332-SH, WDTC1 shRNA (h) Lentiviral Particles: sc-88033-V and WDTC1 shRNA (m) Lentiviral Particles: sc-155332-V.

Molecular Weight of WDTC1: 76 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.

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