

WDR33 (N-17): sc-162403

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. WDR33 (WD repeat domain 33), also known as WDC146 or NET14, is a 1,336 amino acid nuclear protein that is highly expressed in testis. Suggested to play a role in DNA recombination and cytodifferentiation, WDR33 contains one collagen-like domain and seven WD repeats, and is encoded by a gene located on human chromosome 2. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

CHROMOSOMAL LOCATION

Genetic locus: WDR33 (human) mapping to 2q14.3; Wdr33 (mouse) mapping to 18 B1.

SOURCE

WDR33 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of WDR33 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-162403 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

WDR33 (N-17) is recommended for detection of WDR33 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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.

WDR33 (N-17) is also recommended for detection of WDR33 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for WDR33 siRNA (h): sc-94735, WDR33 siRNA (m): sc-155275, WDR33 shRNA Plasmid (h): sc-94735-SH, WDR33 shRNA Plasmid (m): sc-155275-SH, WDR33 shRNA (h) Lentiviral Particles: sc-94735-V and WDR33 shRNA (m) Lentiviral Particles: sc-155275-V.

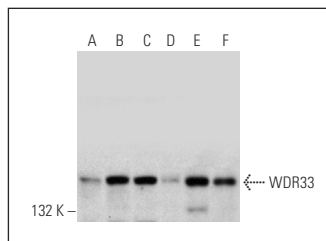
Molecular Weight of WDR33: 146 kDa.

Positive Controls: F9 cell lysate: sc-2245, Ramos cell lysate: sc-2216 or SK-N-SH cell lysate: sc-2410.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



WDR33 (N-17): sc-162403. Western blot analysis of WDR33 expression in NTERA-2 cl.D1 (A), F9 (B), Ramos (C) and SK-N-SH (D) whole cell lysates and mouse testes (E) and rat testes (F) tissue extracts.

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.

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Try **WDR33 (D-1): sc-374466**, our highly recommended monoclonal alternative to WDR33 (N-17).