

WDR55 (P-17): sc-139111

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. WDR55 (WD repeat domain 55) is a 383 amino acid nuclear and cytoplasmic protein that contains 7 WD repeats. Belonging to the WD repeat WDR55 family, WDR55 acts as a modulator of rRNA synthesis and may play a central role during organogenesis. WDR55 exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 5q31.3.

CHROMOSOMAL LOCATION

Genetic locus: WDR55 (human) mapping to 5q31.3; Wdr55 (mouse) mapping to 18 B2.

SOURCE

WDR55 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WDR55 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-139111 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

WDR55 (P-17) is recommended for detection of WDR55 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.

WDR55 (P-17) is also recommended for detection of WDR55 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for WDR55 siRNA (h): sc-91813, WDR55 siRNA (m): sc-155297, WDR55 shRNA Plasmid (h): sc-91813-SH, WDR55 shRNA Plasmid (m): sc-155297-SH, WDR55 shRNA (h) Lentiviral Particles: sc-91813-V and WDR55 shRNA (m) Lentiviral Particles: sc-155297-V.

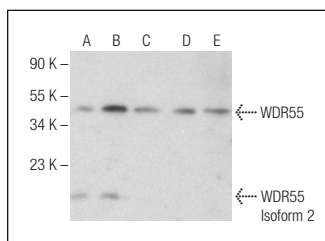
Molecular Weight of WDR55 isoforms: 42/18 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, K-562 whole cell lysate: sc-2203 or K-562 nuclear extract: sc-2130.

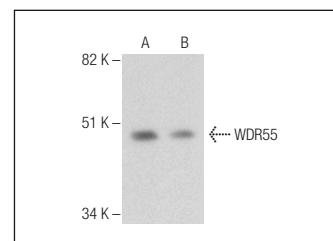
RECOMMENDED SECONDARY REAGENTS

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



WDR55 (P-17): sc-139111. Western blot analysis of WDR55 expression in K-562 nuclear extract (A) and K-562 (B), SUP-T1 (C) TK-1 (D) and LPS treated HL-60 (E) whole cell lysates.



WDR55 (P-17): sc-139111. Western blot analysis of WDR55 expression in K-562 (A) and Jurkat (B) whole cell lysates.

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.



Try **WDR55 (A-5): sc-514225**, our highly recommended monoclonal alternative to WDR55 (P-17).