SANTA CRUZ BIOTECHNOLOGY, INC.

WDR53 (C-13): sc-100249

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The Power to Question

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. WDR53 (WD repeat-containing protein 53) is a 358 amino acid protein that contains 5 WD repeats. The gene encoding WDR53 maps to human chromosome 3, which is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WDR53 (human) mapping to 3q29; Wdr53 (mouse) mapping to 16 B2.

SOURCE

WDR53 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of WDR53 of human origin.

RESEARCH USE

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

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-100249 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR53 (C-13) is recommended for detection of WDR53 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.

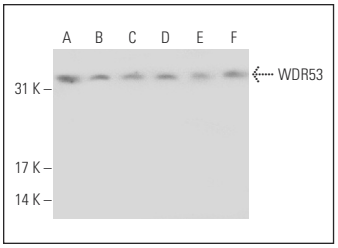
WDR53 (C-13) is also recommended for detection of WDR53 in additional species, including canine and bovine.

Suitable for use as control antibody for WDR53 siRNA (h): sc-78044, WDR53 siRNA (m): sc-155295, WDR53 shRNA Plasmid (h): sc-78044-SH, WDR53 shRNA Plasmid (m): sc-155295-SH, WDR53 shRNA (h) Lentiviral Particles: sc-78044-V and WDR53 shRNA (m) Lentiviral Particles: sc-155295-V.

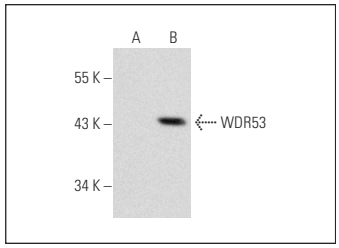
Molecular Weight of WDR53: 39 kDa.

Positive Controls: WDR53 (m): 293T Lysate: sc-124629, MIA PaCa-2 cell lysate: sc-2285 or Hep G2 cell lysate: sc-2227.

DATA



WDR53 (C-13): sc-100249. Western blot analysis of WDR53 expression in HeLa (**A**), MDA-MB-231 (**B**), Hep G2 (**C**), MIA PaCa-2 (**D**), I-11.15 (**E**) and SK-N-MC (**F**) whole cell lysates.



WDR53 (C-13): sc-100249. Western blot analysis of WDR53 expression in non-transfected: sc-117752 (**A**) and mouse WDR53 transfected: sc-124629 (**B**) 293T whole cell lysates.

STORAGE

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