SANTA CRUZ BIOTECHNOLOGY, INC.

WDR92 (E-10): sc-376734

SANTA CRUZ BIOTECHNOLOGY

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 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. WDR92 (WD-repeat-containing protein 92), also known as WD repeat-containing protein Monad, is a 357 amino acid protein that contains six WD-repeats. Expressed in a variety of tissues, with highest levels present in testis, WDR92 is suggested to influence apoptosis. The gene encoding WDR92 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome and comprises nearly 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin icthyosis, sitosterolemia and Alström syndrome.

REFERENCES

1. Van der Voorn, L. and Ploegh, H.L. 1992. The WD-40 repeat. FEBS Lett. 307: 131-134.
2. Neer, E.J., et al. 1994. The ancient regulatory-protein family of WD-repeat proteins. Nature 371: 297-300.
3. Smith, T.F., et al. 1999. The WD repeat: a common architecture for diverse functions. Trends Biochem. Sci. 24: 181-185.
4. Zumsteg, U., et al. 2000. Alstrom syndrome: confirmation of linkage to chromosome 2p12-13 and phenotypic heterogeneity in three affected sibs. J. Med. Genet. 37: E8.

CHROMOSOMAL LOCATION

Genetic locus: WDR92 (human) mapping to 2p14; Wdr92 (mouse) mapping to 11 A2.

SOURCE

WDR92 (E-10) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of WDR92 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

WDR92 (E-10) is available conjugated to agarose (sc-376734 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-376734 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376734 PE), fluorescein (sc-376734 FITC), Alexa Fluor® 488 (sc-376734 AF488), Alexa Fluor® 546 (sc-376734 AF546), Alexa Fluor® 594 (sc-376734 AF594) or Alexa Fluor® 647 (sc-376734 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376734 AF680) or Alexa Fluor® 790 (sc-376734 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

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

APPLICATIONS

WDR92 (E-10) is recommended for detection of WDR92 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for WDR92 siRNA (h): sc-94404, WDR92 siRNA (m): sc-155329, WDR92 shRNA Plasmid (h): sc-94404-SH, WDR92 shRNA Plasmid (m): sc-155329-SH, WDR92 shRNA (h) Lentiviral Particles: sc-94404-V and WDR92 shRNA (m) Lentiviral Particles: sc-155329-V.

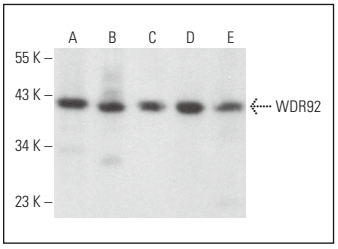
Molecular Weight of WDR92: 40 kDa.

Positive Controls: WDR92 (h): 293T Lysate: sc-117086, A-10 cell lysate: sc-3806 or mouse testis extract: sc-2405.

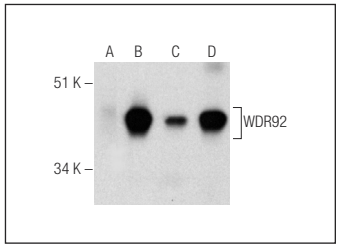
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



WDR92 (E-10): sc-376734. Western blot analysis of WDR92 expression in Hs68 (**A**), SJRH30 (**B**), C2C12 (**C**), A-10 (**D**) and rat PBL (**E**) whole cell lysates.



WDR92 (E-10): sc-376734. Western blot analysis of WDR92 expression in non-transfected 293T: sc-117752 (**A**), human WDR92 transfected 293T: sc-117086 (**B**) and Hs 181 Tes (**C**) whole cell lysates and mouse testis tissue extract (**D**).

SELECT PRODUCT CITATIONS

1. Nasa, I., et al. 2020. Quantitative kinase and phosphatase profiling reveal that CDK1 phosphorylates PP2Ac to promote mitotic entry. Sci. Signal. 13: eaba7823.

RESEARCH USE

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