# WDR93 (A-5): sc-393763



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. WDR93 (WD repeat-containing protein 93) is a 686 amino acid protein that contains one WD repeat and exists as two alternatively spliced isoforms. WDR93 is encoded by a gene that maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

#### **REFERENCES**

- van der Voorn, L. and Ploegh, H.L. 1992. The WD-40 repeat. FEBS Lett. 307: 131-134.
- Hurowitz, G.I., et al. 1993. Neuropsychiatric aspects of adult-onset Tay-Sachs disease: two case reports with several new findings.
  Neuropsychiatry Clin. Neurosci. 5: 30-36.
- Neer, E.J., et al. 1994. The ancient regulatory-protein family of WD-repeat proteins. Nature 371: 297-300.
- 4. Garcia-Higuera, I., et al. 1996. Folding of proteins with WD-repeats: comparison of six members of the WD-repeat superfamily to the G protein  $\beta$  subunit. Biochemistry 35: 13985-13994.

# **CHROMOSOMAL LOCATION**

Genetic locus: WDR93 (human) mapping to 15q26.1; Wdr93 (mouse) mapping to 7 D3.

#### **SOURCE**

WDR93 (A-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 43-70 near the N-terminus of WDR93 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g \; lg G_{2a}$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

WDR93 (A-5) is available conjugated to agarose (sc-393763 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393763 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393763 PE), fluorescein (sc-393763 FITC), Alexa Fluor® 488 (sc-393763 AF488), Alexa Fluor® 546 (sc-393763 AF546), Alexa Fluor® 594 (sc-393763 AF594) or Alexa Fluor® 647 (sc-393763 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393763 AF680) or Alexa Fluor® 790 (sc-393763 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393763 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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#### **APPLICATIONS**

WDR93 (A-5) is recommended for detection of WDR93 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

WDR93 (A-5) is also recommended for detection of WDR93 in additional species, including equine.

Suitable for use as control antibody for WDR93 siRNA (h): sc-90231, WDR93 siRNA (m): sc-155330, WDR93 shRNA Plasmid (h): sc-90231-SH, WDR93 shRNA Plasmid (m): sc-155330-SH, WDR93 shRNA (h) Lentiviral Particles: sc-90231-V and WDR93 shRNA (m) Lentiviral Particles: sc-155330-V.

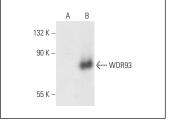
Molecular Weight of WDR93 isoforms: 77/74 kDa.

Positive Controls: WDR93 (h): 293T Lysate: sc-116890.

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> 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-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  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



WDR93 (A-5): sc-393763. Western blot analysis of WDR93 expression in non-transfected: sc-117752 (A) and human WDR93 transfected: sc-116890 (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.

### **RESEARCH USE**

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