**BACKGROUND**

WD-repeat motifs 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-repeat motifs participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms involving signal transduction, apoptosis, transcriptional regulation, cell cycle control. WD repeats serve as sites for protein-protein interaction and some seem to mediate the assembly of protein complexes. With 11 WD repeat units, WDR1 (WD repeat domain 1), also known as AIP1 or NOR1-I, is a 606 amino acid protein that localizes to the cytoskeleton and is a member of the WD repeat AIP1 family. Existing as two alternatively spliced isoforms, WDR1 induces disassembly of actin filaments in conjunction with ADF/cofilin family proteins.

**APPLICATIONS**

WDR1 (B-10) is recommended for detection of WDR1 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), immunohistochemistry (including paraffin-embedded sections) (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 WDR1 siRNA (h): sc-89063, WDR1 siRNA (m): sc-155255, WDR1 shRNA Plasmid (h): sc-89063-3H, WDR1 shRNA Plasmid (m): sc-155255-3H, WDR1 shRNA (h) Lentiviral Particles: sc-89063-V and WDR1 shRNA (m) Lentiviral Particles: sc-155255-V.

**CHROMOSOMAL LOCATION**

Genetic locus: WDR1 (human) mapping to 4p16.1; Wdr1 (mouse) mapping to 5B3.

**SOURCE**

WDR1 (B-10) is a mouse monoclonal antibody raised against amino acids 425-606 mapping at the C-terminus of WDR1 of human origin.

**PRODUCT**

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

WDR1 (B-10) is available conjugated to agarose (sc-393159 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393159 HRP), 200 µg/ml, for WB, IHC and ELISA; to either phycocyanin (sc-393159 PE), fluorescein (sc-393159 FITC), Alexa Fluor® 488 (sc-393159 AF488), Alexa Fluor® 546 (sc-393159 AF546), Alexa Fluor® 594 (sc-393159 AF594) or Alexa Fluor® 647 (sc-393159 AF647), 200 µg/ml, for WB (RGB), IF, IHC and FCM; and to either Alexa Fluor® 680 (sc-393159 AF680) or Alexa Fluor® 790 (sc-393159 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**REFERENCES**


**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.