

WDR13 (B-12): sc-518213

BACKGROUND

WD repeat containing protein 13 (WDR13) is a 485 amino acid protein that is widely expressed in various adult and fetal tissues. 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. The gene encoding WDR13, which maps to chromosome Xp11.23, contains nine exons, eight introns and six WD-repeats. The subcellular localization of the WDR13 protein in the nucleus suggests that it may have a regulatory function. Two isoforms of this protein exist as a result of alternative splicing events.

REFERENCES

1. Claudio, J.O., et al. 1999. Cloning and expression analysis of a novel WD repeat gene, WDR3, mapping to 1p12-p13. *Genomics* 59: 85-89.
2. Di Benedetto, A.J., et al. 2001. Cloning and molecular characterization of a novel gene encoding a WD-repeat protein expressed in restricted areas of adult rat brain. *Gene* 271: 21-31.
3. Koshizuka, Y., et al. 2001. Isolation, characterization, and mapping of the mouse and human WDR8 genes, members of a novel WD-repeat gene family. *Genomics* 72: 252-259.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 300512. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Singh, B.N., et al. 2003. A highly conserved human gene encoding a novel member of WD-repeat family of proteins (WDR13). *Genomics* 81: 315-328.

CHROMOSOMAL LOCATION

Genetic locus: WDR13 (human) mapping to Xp11.23; Wdr13 (mouse) mapping to X A1.1.

SOURCE

WDR13 (B-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 88-114 of WDR13 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

WDR13 (B-12) is available conjugated to agarose (sc-518213 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518213 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518213 PE), fluorescein (sc-518213 FITC), Alexa Fluor® 488 (sc-518213 AF488), Alexa Fluor® 546 (sc-518213 AF546), Alexa Fluor® 594 (sc-518213 AF594) or Alexa Fluor® 647 (sc-518213 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518213 AF680) or Alexa Fluor® 790 (sc-518213 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

WDR13 (B-12) is recommended for detection of WDR13 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 WDR13 siRNA (h): sc-91315, WDR13 siRNA (m): sc-155258, WDR13 shRNA Plasmid (h): sc-91315-SH, WDR13 shRNA Plasmid (m): sc-155258-SH, WDR13 shRNA (h) Lentiviral Particles: sc-91315-V and WDR13 shRNA (m) Lentiviral Particles: sc-155258-V.

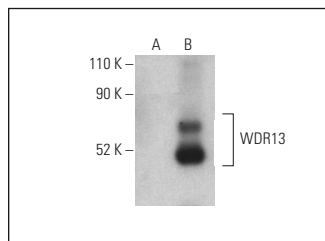
Molecular Weight of WDR13: 53 kDa.

Positive Controls: WDR13 (h3): 293T Lysate: sc-370717, HeLa whole cell lysate: sc-2200 or PC-12 cell lysate: sc-2250.

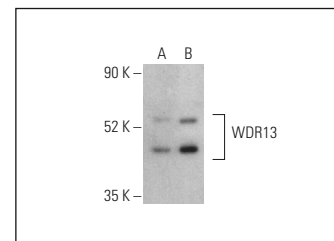
RECOMMENDED SUPPORT REAGENTS

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



WDR13 (B-12): sc-518213. Western blot analysis of WDR13 expression in non-transfected: sc-117752 (A) and human WDR13 transfected: sc-370717 (B) 293T whole cell lysates. Detection reagent used: m-IgG Fc BP-HRP: sc-525409.



WDR13 (B-12): sc-518213. Western blot analysis of WDR13 expression in HeLa (A) and PC-12 (B) 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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.