

WDR5 (N-12): sc-47575

BACKGROUND

WD-repeat protein 5 (WDR5, also designated BMP-2-induced gene 3 kb or BIG-3) belongs to the family of WD-40 repeat proteins, and is essential for vertebrate development, Hox gene activation and global H3K4 trimethylation. WDR5 is a conserved subunit of Trithorax (TRX) histone methyltransferase complexes that selectively binds to dimethylated Lys4 (K4me2) in histone H3 to promote K4 trimethylation by TRX. It is expressed in osteoblasts, chondrocytes, osteocytes and marrow stromal cells. The WDR5 protein contains seven WD repeats, which may play a role in its function of accelerating osteoblast differentiation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WDR5 (human) mapping to 9q34.2; Wdr5 (mouse) mapping to 2 A3.

SOURCE

WDR5 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of WDR5 of human origin.

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-47575 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR5 (N-12) is recommended for detection of WDR5 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); may cross-react with WDR5B.

WDR5 (N-12) is also recommended for detection of WDR5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WDR5 siRNA (h): sc-61798, WDR5 siRNA (m): sc-61799, WDR5 shRNA Plasmid (h): sc-61798-SH, WDR5 shRNA Plasmid (m): sc-61799-SH, WDR5 shRNA (h) Lentiviral Particles: sc-61798-V and WDR5 shRNA (m) Lentiviral Particles: sc-61799-V.

Molecular Weight of WDR5: 34 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.



Try **WDR5 (G-9): sc-393080** or **WDR5 (A-6): sc-393116**, our highly recommended monoclonal alternatives to WDR5 (N-12).