



## WDR4 (m): 293T Lysate: sc-124624

### 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. WDR4 (WD-repeat-containing protein 4), also known as TRM82, is a 412 amino acid protein that contains 2 WD-repeats. Expressed as multiple isoforms due to alternative splicing events, WDR4 forms a complex with METTL1 (methyltransferase like 1) that is necessary for the 7-methylguanosine modification of tRNA. Defects in the gene encoding WDR4 may be associated with the development of Down syndrome, a chromosomal disorder characterized by deformed physical features and mental retardation.

### REFERENCES

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8. Okazaki, N., et al. 2003. Prediction of the coding sequences of mouse homologues of KIAA gene: III. the complete nucleotide sequences of 500 mouse KIAA-homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries. *DNA Res.* 10: 167-180.
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### CHROMOSOMAL LOCATION

Genetic locus: Wdr43 (mouse) mapping to 17 E1.3.

### PRODUCT

WDR4 (m): 293T Lysate represents a lysate of mouse WDR4 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

### APPLICATIONS

WDR4 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive WDR4 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

### STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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](http://www.scbt.com) for detailed protocols and support products.