SANTA CRUZ BIOTECHNOLOGY, INC.

WDR57 (N-14): sc-162407



The Power to Question

BACKGROUND

WDR57 (WD repeat-containing protein 57), also known as SNRNP40 (small nuclear ribonucleoprotein 40 kDa protein), PRP8BP (prp8-binding protein) or SFP38 (splicing factor 38 kDa protein), is a 357 amino acid nuclear protein that contains 7 WD repeats. WDR57 interacts with PRP8 and is a component of the U5 small nuclear ribonucleoprotein (snRNP) complex. The U5 snRNP is part of the spliceosome, a multiprotein complex that catalyzes the removal of introns from pre-messenger RNAs. The gene that encodes WDR57 consists of more than 37,000 bases and maps to human chromosome 1p35.2. Comprising nearly 8% of the human genome, chromosome 1 spans 260 million base pairs, contains over 3,000 genes and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

REFERENCES

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- Achsel, T., et al. 1998. The human U5-220kD protein (hPrp8) forms a stable RNA-free complex with several U5-specific proteins, including an RNA unwindase, a homologue of ribosomal elongation factor EF-2, and a novel WD-40 protein. Mol. Cell. Biol. 18: 6756-6766.
- Neubauer, G., et al. 1998. Mass spectrometry and EST-database searching allows characterization of the multi-protein spliceosome complex. Nat. Genet. 20: 46-50.
- 4. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 607797. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Plasilova, M., et al. 2004. Exclusion of an extracolonic disease modifier locus on chromosome 1p33-36 in a large Swiss familial adenomatous polyposis kindred. Eur. J. Hum. Genet. 12: 365-371.
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CHROMOSOMAL LOCATION

Genetic locus: SNRNP40 (human) mapping to 1p35.2; Snrnp40 (mouse) mapping to 4 D2.2.

SOURCE

WDR57 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of WDR57 of human origin.

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.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162407 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR57 (N-14) is recommended for detection of WDR57 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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); non cross-reactive with other WDR family members.

WDR57 (N-14) is also recommended for detection of WDR57 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for WDR57 siRNA (h): sc-78975, WDR57 siRNA (m): sc-155298, WDR57 shRNA Plasmid (h): sc-78975-SH, WDR57 shRNA Plasmid (m): sc-155298-SH, WDR57 shRNA (h) Lentiviral Particles: sc-78975-V and WDR57 shRNA (m) Lentiviral Particles: sc-155298-V.

Molecular Weight of WDR57: 40 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.



WDR57 (N-14): sc-162407. Western blot analysis of WDR57 expression in HL-60 whole cell lysate.

PROTOCOLS

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