SANTA CRUZ BIOTECHNOLOGY, INC.

WDR36 (S-15): sc-163530

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. WDR36 (WD-repeat-containing protein 36), also known as GLC1G, UTP21, TAWDRP or TA-WDRP, is a 951 amino acid protein that contains 9 WD-repeats and may be involved in T-cell activation. Expressed in heart, placenta, liver, skeletal muscle, kidney and pancreas, WDR36 is highly co-regulated by IL-2. Defects in the gene encoding WDR36 may be the cause of primary open angle glaucoma type 1G (GLC1G), which is characterized by a specific pattern of optic nerve and visual field defects.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WDR36 (human) mapping to 5q22.1; Wdr36 (mouse) mapping to 18 B1.

SOURCE

WDR36 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WDR36 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.

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-163530 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WDR36 (S-15) is recommended for detection of WDR36 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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); non cross-reactive with other WDR family members.

WDR36 (S-15) is also recommended for detection of WDR36 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WDR36 siRNA (h): sc-91824, WDR36 siRNA (m): sc-155278, WDR36 shRNA Plasmid (h): sc-91824-SH, WDR36 shRNA Plasmid (m): sc-155278-SH, WDR36 shRNA (h) Lentiviral Particles: sc-91824-V and WDR36 shRNA (m) Lentiviral Particles: sc-155278-V.

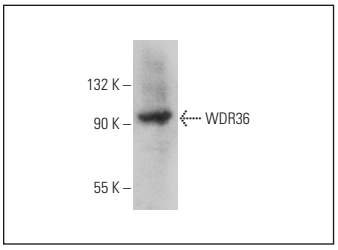
Molecular Weight of WDR36: 105 kDa.

Positive Controls: mouse cerebellum extract: sc-2403.

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.

DATA



WDR36 (S-15): sc-163530. Western blot analysis of WDR36 expression in mouse cerebellum tissue extract.

RESEARCH USE

For research use only, not for use in diagnostic procedures.