SANTA CRUZ BIOTECHNOLOGY, INC.

RWDD1 (N-14): sc-162133

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

RWDD1 (RWD domain containing 1), also known as CGI-24 or PTD013, is a 243 amino acid protein belonging to the RWDD1/GIR2 family. RWDD1 interacts with DRG2 (developmentally regulated GTP binding protein 2), which it protects it from proteolytic degradation. DRG2 is a cytoplasmic protein involved in cell proliferation, differentiation and death. Containing an RWD domain at its N terminal region, RWDD1 is encoded by a gene located on human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

CHROMOSOMAL LOCATION

Genetic locus: RWDD1 (human) mapping to 6q22.1; Rwdd1 (mouse) mapping to 10 B1.

SOURCE

RWDD1 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RWDD1 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-162133 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

RWDD1 (N-14) is recommended for detection of RWDD1 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 RWDD family members.

RWDD1 (N-14) is also recommended for detection of RWDD1 in additional species, including avian.

Suitable for use as control antibody for RWDD1 siRNA (h): sc-95532, RWDD1 siRNA (m): sc-153180, RWDD1 shRNA Plasmid (h): sc-95532-SH, RWDD1 shRNA Plasmid (m): sc-153180-SH, RWDD1 shRNA (h) Lentiviral Particles: sc-95532-V and RWDD1 shRNA (m) Lentiviral Particles: sc-153180-V.

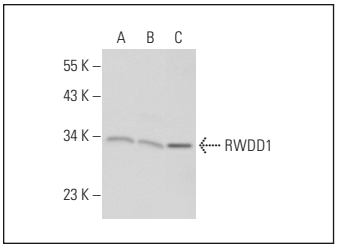
Molecular Weight of RWDD1: 28 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HeLa whole cell lysate: sc-2200 or HEK293 whole cell lysate: sc-45136.

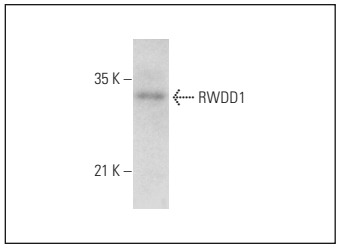
RECOMMENDED SECONDARY REAGENTS

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



RWDD1 (N-14): sc-162133. Western blot analysis of RWDD1 expression in Hep G2 (**A**), HeLa (**B**) and HEK293 (**C**) whole cell lysates.



RWDD1 (N-14): sc-162133. Western blot analysis of RWDD1 expression in human skeletal muscle tissue extract.

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.