SANTA CRUZ BIOTECHNOLOGY, INC.

GBDR1 (C-15): sc-242887

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The Power to Question

BACKGROUND

GBDR1 (glialblastoma cell differentiation-related protein 1), also known as UBAC1 (ubiquitin-associated domain-containing protein 1), KPC2 or UBADC1, is a 405 amino acid protein that localizes to the cytoplasm and contains one ubiquitin-like domain, one STI1 domain and two UBA domains. Expressed ubiquitously with highest expression in heart and skeletal muscle, GBDR1 functions as a non-catalytic subunit of the KPC E3 ubiquitin-protein ligase complex, of which RNF123 is the catalytic subunit. Existing as a critical component of the KPC complex, GBDR1 is essential for the ubiquitination and proteasome-mediated degradation of p27 during the G_1 phase of the cell cycle. The gene encoding GBDR1 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome.

REFERENCES

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6. Tao, Y., Kupfer, R., Stewart, B.J., Williams-Skipp, C., Crowell, C.K., Patel, D.D., Sain, S. and Scheinman, R.I. 2006. AIRE recruits multiple transcriptional components to specific genomic regions through tethering to nuclear matrix. Mol. Immunol. 43: 335-345.

CHROMOSOMAL LOCATION

Genetic locus: UBAC1 (human) mapping to 9q34.3; Ubac1 (mouse) mapping to 2 A3.

SOURCE

GBDR1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GBDR1 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-242887 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GBDR1 (C-15) is recommended for detection of GBDR1 of mouse, rat 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).

GBDR1 (C-15) is also recommended for detection of GBDR1 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for GBDR1 siRNA (h): sc-92662, GBDR1 siRNA (m): sc-145347, GBDR1 shRNA Plasmid (h): sc-92662-SH, GBDR1 shRNA Plasmid (m): sc-145347-SH, GBDR1 shRNA (h) Lentiviral Particles: sc-92662-V and GBDR1 shRNA (m) Lentiviral Particles: sc-145347-V.

Molecular Weight of GBDR1: 46 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.