

Dcun1D3 (D-12): sc-136640

BACKGROUND

Dcun1D3 (Dcun1 domain-containing protein 3) is a 304 amino acid protein that contains one Dcun1 domain. The Dcun1 domain is an approximately 190 residue module that is thought to have the features of a basic helix-loop-helix leucine zipper domain, a domain commonly found in transcription factors. It has been suggested that Dcun1D3 may be involved in cell cycle progression and cell growth. The gene that encodes Dcun1D3 maps to human chromosome 16, which encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. Chromosome 16 houses the CREBBP gene that encodes a critical CREB binding protein that is responsible for the Rubinstein-Taybi syndrome, a rare disorder characterized by mental retardation and predisposition to tumor growth and white blood cell neoplasias.

REFERENCES

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2. Karlsson, J., et al. 2003. Novel quantitative trait loci controlling development of experimental autoimmune encephalomyelitis and proportion of lymphocyte subpopulations. *J. Immunol.* 170: 1019-1026.
3. Kurz, T., et al. 2005. The conserved protein DCN-1/Dcn1p is required for cullin neddylation in *C. elegans* and *S. cerevisiae*. *Nature* 435: 1257-1261.
4. Forabosco, P., et al. 2006. Meta-analysis of genome-wide linkage studies of systemic lupus erythematosus. *Genes Immun.* 7: 609-614.
5. Carneiro, L.A., et al. 2007. NOD-like receptors in innate immunity and inflammatory diseases. *Ann. Med.* 39: 581-593.
6. King, K., et al. 2007. Identification, evolution, and association study of a novel promoter and first exon of the human NOD2 (CARD15) gene. *Genomics* 90: 493-501.
7. Gervasini, C., et al. 2007. High frequency of mosaic CREBBP deletions in Rubinstein-Taybi syndrome patients and mapping of somatic and germline breakpoints. *Genomics* 90: 567-573.

CHROMOSOMAL LOCATION

Genetic locus: DCUN1D3 (human) mapping to 16p12.3; Dcun1d3 (mouse) mapping to 7 F2.

SOURCE

Dcun1D3 (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Dcun1D3 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-136640 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Dcun1D3 (D-12) is recommended for detection of Dcun1D3 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); non cross-reactive with Dcun1D.

Dcun1D3 (D-12) is also recommended for detection of Dcun1D3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dcun1D3 siRNA (h): sc-93018, Dcun1D3 siRNA (m): sc-142909, Dcun1D3 shRNA Plasmid (h): sc-93018-SH, Dcun1D3 shRNA Plasmid (m): sc-142909-SH, Dcun1D3 shRNA (h) Lentiviral Particles: sc-93018-V and Dcun1D3 shRNA (m) Lentiviral Particles: sc-142909-V.

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.