SANTA CRUZ BIOTECHNOLOGY, INC.

Dcun1D1 (S-17): sc-50181

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Dcun1D1, (defective in cullin neddylation protein 1-like protein 1 or DCN1-like protein 1), also designated Rp42, Tes3 or squamous cell carcinoma-related oncogene (SCCRO) is involved in the malignant transformation of squamous cell lineage. Dcun1D1 regulates Gli1, a key regulator of the hedgehog (HH) pathway that plays an important role in development, maintenance, and regeneration of almost all adult tissues. Vascular endothelial growth factor-A (VEGF-A) is co-expressed with Dcun1D1, and the two function to induce angiogenesis. Overexpression of the Dcun1D1 gene is associated with invasive tumor progression and a poor outcome in non-small cell lung cancer, and low-level Dcun1D1 expression in adjacent benign lung tissue predicts an even worse survival rate. Dcun1D1 expression may be a marker of progressive dedifferentiation in squamous cell tumors.

CHROMOSOMAL LOCATION

Genetic locus: DCUN1D1 (human) mapping to 3q26.33; Dcun1d1 (mouse) mapping to 3 B.

SOURCE

Dcun1D1 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Dcun1D1 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-50181 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

Dcun1D1 (S-17) is recommended for detection of Dcun1D1 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); may cross-react with Dcun1D2.

Dcun1D1 (S-17) is also recommended for detection of Dcun1D1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dcun1D1 siRNA (h): sc-61498, Dcun1D1 siRNA (m): sc-61499, Dcun1D1 shRNA Plasmid (h): sc-61498-SH, Dcun1D1 shRNA Plasmid (m): sc-61499-SH, Dcun1D1 shRNA (h) Lentiviral Particles: sc-61498-V and Dcun1D1 shRNA (m) Lentiviral Particles: sc-61499-V.

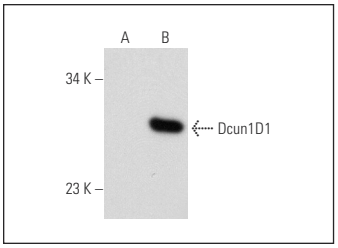
Molecular Weight for Dcun1D1: 30 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or Dcun1D1 (m): 293T Lysate: sc-123264.

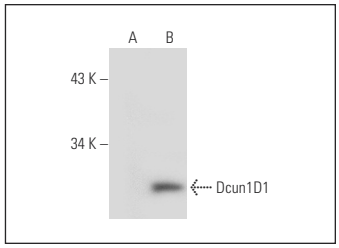
RECOMMENDED SECONDARY REAGENTS

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



Dcun1D1 (S-17): sc-50181. Western blot analysis of Dcun1D1 expression in non-transfected: sc-117752 (**A**) and mouse Dcun1D1 transfected: sc-123266 (**B**) 293T whole cell lysates.



Dcun1D1 (S-17): sc-50181. Western blot analysis of Dcun1D1 expression in non-transfected: sc-117752 (**A**) and mouse Dcun1D1 transfected: sc-123264 (**B**) 293T whole cell lysates.

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.

MONOS Satisfaction Guaranteed

Try **Dcun1D1/2 (A-11): sc-398218** or **Dcun1D1 (3E1): sc-81835**, our highly recommended monoclonal alternatives to Dcun1D1/2 (S-17).