**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 invasion and low-level Dcun1D1 expression in adjacent benign lung tissue predicts angiogenesis. Overexpression of the Dcun1D1 gene is associated with invasion and low-level Dcun1D1 expression in adjacent benign lung tissue predicts progressive tumour progression and a poor outcome in non-small cell lung cancer, and low-level Dcun1D1 expression in adjacent benign lung tissue predicts angiogenesis. Overexpression of the Dcun1D1 gene is associated with invasion.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DCUN1D1 (human) mapping to 3q26.33, DCUN1D2 (human) mapping to 13q34, Dcun1d1 (mouse) mapping to 3 B, Dcun1d2 (mouse) mapping to 8 A1.1.

**SOURCE**

Dcun1D1/2 (A-11) is a mouse monoclonal antibody raised against amino acids 71-233 mapping within an internal region of Dcun1D1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Dcun1D1/2 (A-11) is recommended for detection of Dcun1D1 and Dcun1D2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Dcun1D1/2 (A-11) is also recommended for detection of Dcun1D1 and Dcun1D2 in additional species, including equine, canine, bovine and porcine. Molecular Weight of Dcun1D1/2: 30 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

Dcun1D1/2 (A-11): sc-398218. Western blot analysis of Dcun1D1/2 expression in NIH/3T3 (A), 3T3-L1 (B), WEHI-231 (C), c4 (D) and Daudi (E) whole cell lysates and rat spleen tissue extract (F).

Dcun1D1/2 (A-11): sc-398218. Western blot analysis of Dcun1D1/2 expression in TT (A), SCC-4 (B), HeLa (C), HEK293 (D) and U-937 (E) whole cell lysates.

**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 website at www.scbt.com for detailed protocols and support products.