**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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Dcun1D1 (human) mapping to 3q26.33, Dcun1D2 (human) mapping to 13q34; Dcun1D1 (mouse) mapping to 3B, Dcun1D2 (mouse) mapping to 8A1.1.

**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 IgG₂κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Dcun1D1/2 (A-11) is available conjugated to agarose (sc-398218 ALC, 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398218 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398218 PE), fluorescein (sc-398218 FITC), Alexa Fluor® 488 (sc-398218 AF488), Alexa Fluor® 546 (sc-398218 AF546), Alexa Fluor® 594 (sc-398218 AF594) or Alexa Fluor® 647 (sc-398218 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398218 AF680) or Alexa Fluor® 790 (sc-398218 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**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.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP - Cruz Marker™ (dilution range: 1:1000-1:10000), Cruz Marker™ 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).

**DATA**

**SELECT PRODUCT CITATIONS**


**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.