BACKGROUND

Dcun1D1, defective in cullin neddylation protein 1-like protein 1 or DCNL1-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; Dcun1d1 (mouse) mapping to 3 B.

SOURCE

Dcun1D1 (3E1) is a mouse monoclonal antibody raised against recombinant Dcun1D1 of human origin.

PRODUCT

Each vial contains 100 µg IgG2b kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Dcun1D1 (3E1) 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). 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-61498-SH, Dcun1D1 shRNA (h) Lentiviral Particles: sc-61498-V and Dcun1D1 shRNA (m) Lentiviral Particles: sc-61499-V.

Molecular Weight of Dcun1D1: 30 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

RECOMMENDED SUPPORT REAGENTS

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

DATA

Dcun1D1 (3E1): sc-81835. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing membrane and cytoplasmic localization.

SELECT PRODUCT CITATIONS


RESEARCH USE

For research use only, not for use in diagnostic procedures.