Bcun1D1 (3E1): sc-81835

**BACKGROUND**

Bcun1D1 (defective in culin 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. Bcun1D1 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 Bcun1D1, and the two function to induce angiogenesis. Overexpression of the Bcun1D1 gene is associated with invasive tumor progression and a poor outcome in non-small cell lung cancer, and low-level Bcun1D1 expression in adjacent benign lung tissue predicts an even worse survival rate. Bcun1D1 expression may be a marker of progressive dedifferentiation in squamous cell tumors.

**REFERENCES**


**APPLICATIONS**

Bcun1D1 (3E1) is recommended for detection of Bcun1D1 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 Bcun1D1 siRNA (h): sc-61498, Bcun1D1 siRNA (m): sc-61499, Bcun1D1 shRNA Plasmid (h): sc-61498-SH, Bcun1D1 shRNA Plasmid (m): sc-61499-SH, Bcun1D1 shRNA (h) Lentiviral Particles: sc-61498-V and Bcun1D1 shRNA (m) Lentiviral Particles: sc-61499-V.

Molecular Weight of Bcun1D1: 30.1 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:10000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

**DATA**

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

**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 for detailed protocols and support products.