

Uev1A (m4): 293T Lysate: sc-110308

BACKGROUND

Uev1A, also designated Uev1, UBE2V1 (for ubiquitin-conjugating enzyme E2 variant 1) and CROC1, shows sequence similarity to other ubiquitin-conjugating enzymes, but lacks the conserved cysteine residue critical for their catalytic activity. Therefore, Uev1A does not have ubiquitin-conjugating activity *in vitro*. However, constitutive expression of exogenous Uev1A in colon carcinoma cells inhibits their capacity to differentiate upon confluence. Studies on recombinant Uev1A show that it localizes to the nucleus, excluding the nucleolar regions. Uev1A functions with TRAF6, a RING domain protein, to catalyze the synthesis of unique polyubiquitin chains linked through Lysine 63 of ubiquitin. The gene encoding Uev1A maps to human chromosome 20q13.13.

REFERENCES

1. Rothfoks, M.L. and Lin, S.L. 1997. CROC1 encodes a protein which mediates transcriptional activation of the human Fos promoter. *Gene* 195: 141-149.
2. Sancho, E., et al. 1998. Role of Uev-1, an inactive variant of the E2 ubiquitin-conjugating enzymes, in *in vitro* differentiation and cell cycle behavior of HT-29-M6 intestinal mucosecretory cells. *Mol. Cell. Biol.* 18: 576-589.
3. Hofmann, R.M. and Pickart, C.M. 1999. Noncanonical MMS2-encoded ubiquitin-conjugating enzyme functions in assembly of novel polyubiquitin chains for DNA repair. *Cell* 96: 645-653.
4. Deng, L., et al. 2000. Activation of the I κ B complex by TRAF6 requires a dimeric ubiquitin-conjugating enzyme complex and a unique polyubiquitin chain. *Cell* 103: 351-361.
5. Gudgen, M., et al. 2004. Interactions within the ubiquitin pathway of *Caenorhabditis elegans*. *Biochem. Biophys. Res. Commun.* 325: 479-486.
6. LocusLink Report (LocusID: 602995). <http://www.ncbi.nlm.nih.gov/Locuslink/>

CHROMOSOMAL LOCATION

Genetic locus: Ube2v1 (mouse) mapping to 2 H3.

PRODUCT

Uev1A (m4): 293T Lysate represents a lysate of mouse Uev1A transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

Uev1A (m4): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Uev1A antibodies. Recommended use: 10-20 μ l per lane.

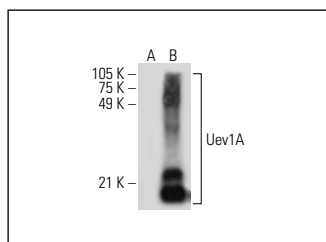
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Uev1A (H-6): sc-390047 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Uev1A expression in Uev1A transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (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.

DATA



Uev1A (H-6): sc-390047. Western blot analysis of Uev1A expression in non-transfected 293T: sc-110760 (A) and mouse Uev1A transfected 293T: sc-110308 (B) whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.