SANTA CRUZ BIOTECHNOLOGY, INC.

Uev1A (C-13): sc-47556

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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.

CHROMOSOMAL LOCATION

Genetic locus: UBE2V1 (human) mapping to 20q13.13; Ube2v1 (mouse) mapping to 2 H3.

SOURCE

Uev1A (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Uev1A of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-47556 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Uev1A (C-13) is recommended for detection of Uev1A isoforms 1, 2, 3, 4 and 5 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).

Uev1A (C-13) is also recommended for detection of Uev1A isoforms 1, 2, 3, 4 and 5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Uev1A siRNA (h): sc-38606, Uev1A siRNA (m): sc-45988, Uev1A shRNA Plasmid (h): sc-38606-SH, Uev1A shRNA Plasmid (m): sc-45988-SH, Uev1A shRNA (h) Lentiviral Particles: sc-38606-V and Uev1A shRNA (m) Lentiviral Particles: sc-45988-V.

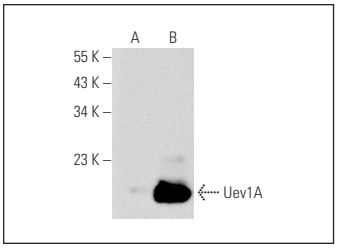
Molecular Weight of Uev1A: 26 kDa.

Positive Controls: Uev1A (m): 293 Lysate: sc-110308, mouse brain extract: sc-2253 or mouse liver extract: sc-2256.

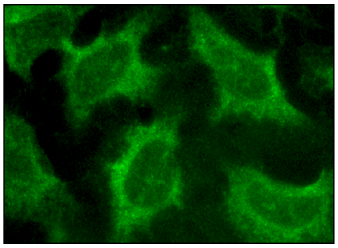
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Uev1A (C-13): sc-47556. Western blot analysis of Uev1A expression in non-transfected: sc-110760 (**A**) and mouse Uev1A transfected: sc-110308 (**B**) 293 whole cell lysates.



Uev1A (C-13): sc-47556. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

1. Pulvino, M., et al. 2012. Inhibition of proliferation and survival of diffuse large B-cell lymphoma cells by a small-molecule inhibitor of the ubiquitin-conjugating enzyme Ubc13-Uev1A. Blood 120: 1668-1677.

RESEARCH USE

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

PROTOCOLS

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