SANTA CRUZ BIOTECHNOLOGY, INC.

# UHRF1 (C-12): sc-79805

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*The Power to Question*

## BACKGROUND

UHRF1 (ubiquitin-like, containing PHD and RING finger domains, 1), also known as Np95 (nuclear zinc finger protein 95), ICBP90 (inverted CCAAT box-binding protein of 90 kDa) or RNF106, is a transcription and cell cycle regulator belonging to the RING-finger type E3 ubiquitin ligase subfamily. UHRF1 is expressed in bone marrow, thymus, heart, testis and lung, and contains one PHD-type zinc finger, a ubiquitin-like domain, two RING-type zinc fingers and one YDG/SRA domain. Localizing to the nucleus, UHRF1 is believed to function as an E3 ubiquitin-protein ligase that accepts a ubiquitin residue from an E2 ubiquitin-conjugating enzyme and immediately transfers that residue to a protein that is targeted for degradation. By mediating ubiquitination, UHRF1 plays an important role in cellular proliferation. In addition, UHRF1 directly interacts with Dnmt1 (a maintenance DNA methyltransferase) and is required for the stable association of Dnmt1 with chromatin. UHRF1 is overexpressed in cancer cells, suggesting a possible role in carcinogenesis.

## CHROMOSOMAL LOCATION

Genetic locus: UHRF1 (human) mapping to 19p13.3; Uhrf1 (mouse) mapping to 17 D.

## SOURCE

UHRF1 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of UHRF1 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-79805 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

UHRF1 (C-12) is recommended for detection of UHRF1 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).

UHRF1 (C-12) is also recommended for detection of UHRF1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for UHRF1 siRNA (h): sc-76805, UHRF1 siRNA (m): sc-155976, UHRF1 shRNA Plasmid (h): sc-76805-SH, UHRF1 shRNA Plasmid (m): sc-155976-SH, UHRF1 shRNA (h) Lentiviral Particles: sc-76805-V and UHRF1 shRNA (m) Lentiviral Particles: sc-155976-V.

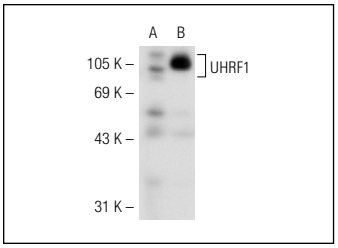
Molecular Weight of UHRF1: 90 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, UHRF1 (m): 293T Lysate: sc-124463 or HeLa nuclear extract: sc-2120.

## 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




UHRF1 (C-12): sc-79805. Western blot analysis of UHRF1 expression in non-transfected: sc-117752 (**A**) and mouse UHRF1 transfected: sc-124463 (**B**) 293T whole cell lysates.

## 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 or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **UHRF1 (H-8): sc-373750** or **UHRF1 (G-2): sc-166898**, our highly recommended monoclonal alternatives to UHRF1 (C-12). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **UHRF1 (H-8): sc-373750**.