SANTA CRUZ BIOTECHNOLOGY, INC.

UBCE7IP4 (H-52): sc-292063

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). UBCE7IP4 (Ubiquitin-conjugating enzyme 7-interacting protein 4), also known as RNF144A (RING finger protein 144A), KIAA0161 or RNF144, is a 292 amino acid single-pass membrane protein that contains one RING-type zinc finger and two IBR-type zinc fingers. Functioning as an E3 ubiquitin-protein ligase, UBCE7IP4 accepts ubiquitin (in the form of a thioester) from E2 ubiquitin-conjugating enzymes, such as UBC8 and UBCH7, and transfers that ubiquitin residue to target substrates. Via its RING finger, UBCE7IP4 may play a role in protein-DNA and protein-protein interactions throughout the cell.

CHROMOSOMAL LOCATION

Genetic locus: RNF144A (human) mapping to 2p25.2; Rnf144a (mouse) mapping to 12 A2.

SOURCE

UBCE7IP4 (H-52) is a rabbit polyclonal antibody raised against amino acids 49-100 mapping within an internal region of UBCE7IP4 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. Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292063 X, 200 µg/0.1 ml.

APPLICATIONS

UBCE7IP4 (H-52) is recommended for detection of UBCE7IP4 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).

UBCE7IP4 (H-52) is also recommended for detection of UBCE7IP4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for UBCE7IP4 siRNA (h): sc-94470, UBCE7IP4 siRNA (m): sc-154845, UBCE7IP4 shRNA Plasmid (h): sc-94470-SH, UBCE7IP4 shRNA Plasmid (m): sc-154845-SH, UBCE7IP4 shRNA (h) Lentiviral Particles: sc-94470-V and UBCE7IP4 shRNA (m) Lentiviral Particles: sc-154845-V.

UBCE7IP4 (H-52) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

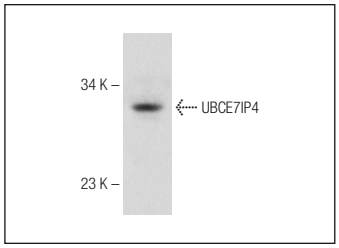
Molecular Weight of UBCE7IP4: 33 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



UBCE7IP4 (H-52): sc-292063. Western blot analysis of UBCE7IP4 expression in Jurkat whole cell lysate.

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 **UBCE7IP4 (F-2): sc-393432**, our highly recommended monoclonal alternative to UBCE7IP4 (H-52).