SANTA CRUZ BIOTECHNOLOGY, INC.

OTUD7B (C-15): sc-131738

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

OTUD7B (OTU domain-containing protein 7B), also known as ZA20D1 or Cezanne, is an 843 amino acid protein that localizes to both the nucleus and the cytoplasm. Expressed in a variety of tissues, including liver, kidney, heart and immature B cells, OTUD7B functions to hydrolyze branched and linear forms of polyubiquitin, specifically deubiquinating Lys 48- and Lys 63-linked polyubiquitin chains. Via its ability to deubiquinate target proteins, OTUD7B regulates the inflammatory response within the cell and may play a role in cell survival. More specifically, OTUD7B forms a negative feedback loop in pro-inflammatory signaling, thereby suppressing NFκB activity and helping to resolve inflammatory responses. OTUD7B contains one C-terminal A20-type zinc-finger, one OTU domain and one N-terminal TRAF-binding domain through which it conveys its deubiquitinating activity.

CHROMOSOMAL LOCATION

Genetic locus: OTUD7B (human) mapping to 1q21.2; Otud7b (mouse) mapping to 3 F2.1.

SOURCE

OTUD7B (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of OTUD7B 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-131738 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

OTUD7B (C-15) is recommended for detection of OTUD7B 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); non cross-reactive with other OTUD family members.

OTUD7B (C-15) is also recommended for detection of OTUD7B in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for OTUD7B siRNA (h): sc-78957, OTUD7B siRNA (m): sc-151945, OTUD7B shRNA Plasmid (h): sc-78957-SH, OTUD7B shRNA Plasmid (m): sc-151945-SH, OTUD7B shRNA (h) Lentiviral Particles: sc-78957-V and OTUD7B shRNA (m) Lentiviral Particles: sc-151945-V.

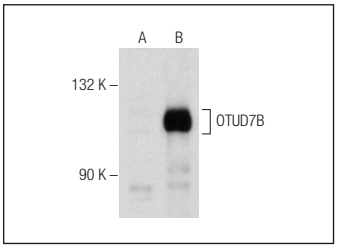
Molecular Weight of OTUD7B: 100 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or OTUD7B (h): 293T Lysate: sc-370269.

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



OTUD7B (C-15): sc-131738. Western blot analysis of OTUD7B expression in non-transfected: sc-117752 (**A**) and human OTUD7B transfected: sc-370269 (**B**) 293T whole cell lysates.

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 **OTUD7B (H-4): sc-514402** or **OTUD7B (A-11): sc-514334**, our highly recommended monoclonal alternatives to OTUD7B (C-15).