SANTA CRUZ BIOTECHNOLOGY, INC.

OTUD7A (Q-14): sc-165171

BACKGROUND

OTUD7A (OTU domain-containing protein 7A), also known as CEZANNE2, is a 926 amino acid cytoplasmic and nuclear protein that belongs to the peptidase C64 family. OTUD7A contains one A20-type zinc finger, one OTU domain and exists as two alternatively spliced isoforms. Hydrolyzing both linear and branched forms of polyubiquitin, OTUD7A has deubiquitinating activity that is directed towards "Lys-48" or "Lys-63"-linked polyubiquitin chains. The gene that encodes OTUD7A consists of approximately 174,262 bases and maps to human chromosome 15q13.3. Chromosome 15 houses over 700 genes and comprises nearly 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15, while Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

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CHROMOSOMAL LOCATION

Genetic locus: OTUD7A (human) mapping to 15q13.3; Otud7a (mouse) mapping to 7 C.

SOURCE

OTUD7A (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of OTUD7A 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-165171 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OTUD7A (Q-14) is recommended for detection of OTUD7A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 OTUD7B.

OTUD7A (Q-14) is also recommended for detection of OTUD7A in additional species, including bovine and porcine.

Suitable for use as control antibody for OTUD7A siRNA (h): sc-90013, OTUD7A siRNA (m): sc-151944, OTUD7A shRNA Plasmid (h): sc-90013-SH, OTUD7A shRNA Plasmid (m): sc-151944-SH, OTUD7A shRNA (h) Lentiviral Particles: sc-90013-V and OTUD7A shRNA (m) Lentiviral Particles: sc-151944-V.

Molecular Weight of OTUD7A: 101 kDa.

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) 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.

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.