SANTA CRUZ BIOTECHNOLOGY, INC.

SERTAD3 (I-14): sc-161216

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The Power to Question

BACKGROUND

SERTAD3 (SERTA domain containing 3), also known as RBT1 or replication protein-binding trans-activator (RPA-binding trans-activator), is a 196 amino acid nuclear protein that functions as a transcriptional coactivator and interacts with RPA 32. Like other members of the SERTAD family, SERTAD3 contains a SERTA domain, N-terminal cyclin A-binding motif, PHD-bromo interacting domain and a C-terminal activation domain. Through an E2-F dependent mechanism, SERTAD3 participates in oncogenesis, and is encoded by a gene that maps to human chromosome 19q13.2. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SERTAD3 (human) mapping to 19q13.2; Sertad3 (mouse) mapping to 7 A3.

SOURCE

SERTAD3 (I-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SERTAD3 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-161216 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SERTAD3 (I-14) is recommended for detection of SERTAD3 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 SERTAD2 or SERTAD4.

SERTAD3 (I-14) is also recommended for detection of SERTAD3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SERTAD3 siRNA (h): sc-97275, SERTAD3 siRNA (m): sc-153378, SERTAD3 shRNA Plasmid (h): sc-97275-SH, SERTAD3 shRNA Plasmid (m): sc-153378-SH, SERTAD3 shRNA (h) Lentiviral Particles: sc-97275-V and SERTAD3 shRNA (m) Lentiviral Particles: sc-153378-V.

Molecular Weight of SERTAD3: 22 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.