SANTA CRUZ BIOTECHNOLOGY, INC.

TRIAD1 (C-7): sc-390682

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TRIAD1, also known as ARIH2 (ariadne homolog 2) or ARI2, is a 493 amino acid protein that contains one IBR-type zinc finger and 2 RING-type zinc fingers and belongs to the ariadne subfamily of RBR proteins. Localized to the nucleus, TRIAD1 interacts with UBE2L3 and is thought to act as an E3 ubiquitin-protein ligase, functioning to accept ubiquitin from E2 ubiquitin-conjugating enzymes and transfer the acquired ubiquitin residue to target substrates. TRIAD1 is subject to post-translational DNA damage-dependent phosphorylation, probably by ATM or ATR. The gene encoding TRIAD1 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

REFERENCES

1. van der Reijden, B.A., et al. 1999. TRIADs: a new class of proteins with a novel cysteine-rich signature. Protein Sci. 8: 1557-1561.
2. Aguilera, M., et al. 2000. Ariadne-1: a vital *Drosophila* gene is required in development and defines a new conserved family of ring-finger proteins. Genetics 155: 1231-1244.
3. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 605615. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
4. Beitel, L.K., et al. 2002. Cloning and characterization of an androgen receptor N-terminal-interacting protein with ubiquitin-protein ligase activity. J. Mol. Endocrinol. 29: 41-60.
5. Marteijn, J.A., et al. 2005. The E3 ubiquitin-protein ligase TRIAD1 inhibits clonogenic growth of primary myeloid progenitor cells. Blood 106: 4114-4123.

CHROMOSOMAL LOCATION

Genetic locus: ARIH2 (human) mapping to 3p21.31; Arih2 (mouse) mapping to 9 F2.

SOURCE

TRIAD1 (C-7) is a mouse monoclonal antibody raised against amino acids 314-481 mapping near the C-terminus of TRIAD1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRIAD1 (C-7) is available conjugated to agarose (sc-390682 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390682 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390682 PE), fluorescein (sc-390682 FITC), Alexa Fluor® 488 (sc-390682 AF488), Alexa Fluor® 546 (sc-390682 AF546), Alexa Fluor® 594 (sc-390682 AF594) or Alexa Fluor® 647 (sc-390682 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390682 AF680) or Alexa Fluor® 790 (sc-390682 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TRIAD1 (C-7) is recommended for detection of TRIAD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

TRIAD1 (C-7) is also recommended for detection of TRIAD1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TRIAD1 siRNA (h): sc-63159, TRIAD1 siRNA (m): sc-63160, TRIAD1 shRNA Plasmid (h): sc-63159-SH, TRIAD1 shRNA Plasmid (m): sc-63160-SH, TRIAD1 shRNA (h) Lentiviral Particles: sc-63159-V and TRIAD1 shRNA (m) Lentiviral Particles: sc-63160-V.

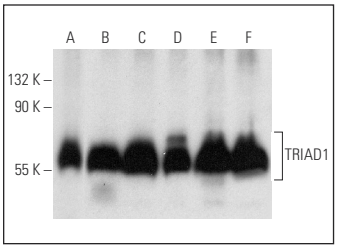
Molecular Weight of TRIAD1: 58 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, U266 whole cell lysate: sc-364800 or Ramos cell lysate: sc-2216.

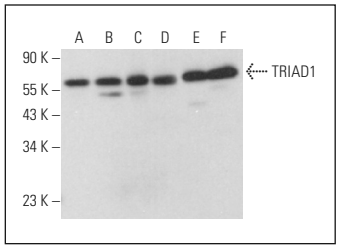
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



TRIAD1 (C-7): sc-390682. Western blot analysis of TRIAD1 expression in 293TN (**A**), Jurkat (**B**), Ramos (**C**), PC-12 (**D**), U266 (**E**) and LADMAC (**F**) whole cell lysates.



TRIAD1 (C-7): sc-390682. Western blot analysis of TRIAD1 expression in Jurkat (**A**), K-562 (**B**), HEL 92.1.7 (**C**), BYDP (**D**), F9 (**E**) and NCI-H929 (**F**) 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.