

# TRIAD1 (F-23): sc-134113

## 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 two 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

TRIAD1 (F-23) is a Protein A purified rabbit polyclonal antibody raised against synthetic TRIAD1 peptide of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

TRIAD1 (F-23) is recommended for detection of TRIAD1 of mouse, rat, human and canine 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

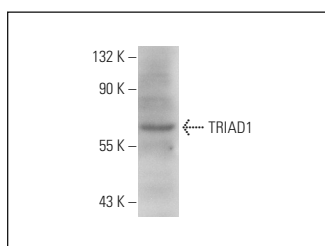
Molecular Weight of TRIAD1: 58 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

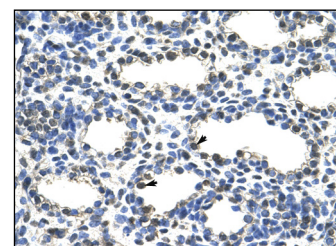
## RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



TRIAD1 (F-23): sc-134113. Western blot analysis of TRIAD1 expression in Jurkat whole cell lysate.



TRIAD1 (F-23): sc-134113. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human lung tissue showing nuclear localization.

## SELECT PRODUCT CITATIONS

1. Pietschmann, K., et al. 2012. Differential regulation of PML-RAR $\alpha$  stability by the ubiquitin ligases SIAH1/SIAH2 and TRIAD1. *Int. J. Biochem. Cell Biol.* 44: 132-138.
2. Bae, S., et al. 2012. TRIAD1 inhibits MDM2-mediated p53 ubiquitination and degradation. *FEBS Lett.* 586: 3057-3063.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **TRIAD1 (C-7): sc-390682** or **TRIAD1 (C-3): sc-390670**, our highly recommended monoclonal alternatives to TRIAD1 (F-23).