SANTA CRUZ BIOTECHNOLOGY, INC.

# TRIM52 (A-4): sc-398954

## BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM52 (tripartite motif-containing 52), also known as RNF102 (RING finger protein 102), is a 297 amino acid protein that belongs to the TRIM family and contains one B box-type zinc fingers and one RING-type zinc finger. The gene encoding TRIM52 maps to chromosome 5, which is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

## REFERENCES


1. Rauch, A., et al. 2007. Chromosome 5q subtelomeric deletion syndrome. Am. J. Med. Genet. C, Semin. Med. Genet. 145C: 372-376.
2. Villa, N., et al. 2007. Fetal trisomy 5 mosaicism: case report and literature review. Am. J. Med. Genet. A 143A: 2343-2346.
3. Shadduck, R.K., et al. 2007. Recent advances in myelodysplastic syndromes. Exp. Hematol. 35: 137-143.
4. Falini, B., et al. 2007. Translocations and mutations involving the nucleophosmin (NPM1) gene in lymphomas and leukemias. Haematologica 92: 519-532.


## CHROMOSOMAL LOCATION

Genetic locus: TRIM52 (human) mapping to 5q35.3.

## SOURCE

TRIM52 (A-4) is a mouse monoclonal antibody raised against amino acids 79-124 mapping within an internal region of TRIM52 of human origin.

## PRODUCT

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

TRIM52 (A-4) is available conjugated to agarose (sc-398954 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-398954 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398954 PE), fluorescein (sc-398954 FITC), Alexa Fluor® 488 (sc-398954 AF488), Alexa Fluor® 546 (sc-398954 AF546), Alexa Fluor® 594 (sc-398954 AF594) or Alexa Fluor® 647 (sc-398954 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398954 AF680) or Alexa Fluor® 790 (sc-398954 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.



## STORAGE

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

## APPLICATIONS

TRIM52 (A-4) is recommended for detection of TRIM52 of 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).

Suitable for use as control antibody for TRIM52 siRNA (h): sc-91594, TRIM52 shRNA Plasmid (h): sc-91594-SH and TRIM52 shRNA (h) Lentiviral Particles: sc-91594-V.

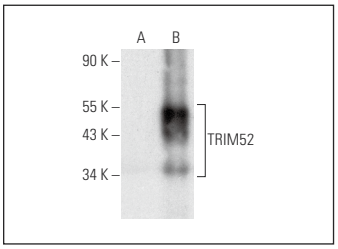
Molecular Weight of TRIM52: 35 kDa.

Positive Controls: TRIM52 (h): 293T Lysate: sc-370116.

## 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




TRIM52 (A-4): sc-398954. Western blot analysis of TRIM52 expression in non-transfected: sc-117752 (**A**) and human TRIM52 transfected: sc-370116 (**B**) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS


1. Benke, S., et al. 2018. Human tripartite motif protein 52 is required for cell context-dependent proliferation. Oncotarget 9: 13565-13581.
2. Guo, Y., et al. 2022. Tripartite motif 52 (TRIM52) promotes proliferation, migration, and regulation of colon cancer cells associated with the NFκB signaling pathway. J. Gastrointest. Oncol. 13: 1097-1111.


## RESEARCH USE

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