SANTA CRUZ BIOTECHNOLOGY, INC.

TRIM8 (C-20): sc-165791

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. TRIM8 (tripartite motif containing 8), also known as GERP (glioblastoma-expressed RING finger protein) or RNF27 (RING finger protein 27), is a 551 amino acid protein that is thought to function as an E3 ubiquitin-protein ligase that promotes SOCS-1 proteasomal degradation. As a widely expressed homodimer, TRIM8 localizes to nuclear bodies and contains two B box-type zinc fingers and one RING-type zinc finger. TRIM8 is expressed in lung, heart, brain and skeletal muscle, with low levels detected in intestine, placenta, leukocytes and liver. The gene encoding TRIM8 maps to human chromosome 10q24.32.

REFERENCES

1. Vincent, S.R., et al. 2000. A novel RING finger-B box-coiled-coil protein, GERP. Biochem. Biophys. Res. Commun. 279: 482-486.
2. Reymond, A., et al. 2001. The tripartite motif family identifies cell compartments. EMBO J. 20: 2140-2151.
3. Toniato, E., et al. 2002. TRIM8/GERP RING finger protein interacts with SOCS-1. J. Biol. Chem. 277: 37315-37322.
4. Toniato, E., et al. 2004. Genomic organization and cytokine-mediated inducibility of the human TRIM-8/Gerp gene. Int. J. Immunopathol. Pharmacol. 17: 71-76.
5. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 606125. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
6. Markson, G., et al. 2009. Analysis of the human E2 ubiquitin conjugating enzyme protein interaction network. Genome Res. 19: 1905-1911.
7. Okumura, F., et al. 2010. TRIM8 modulates STAT3 activity through negative regulation of PIAS3. J. Cell Sci. 123: 2238-2245.

CHROMOSOMAL LOCATION

Genetic locus: TRIM8 (human) mapping to 10q24.32; Trim8 (mouse) mapping to 19 C3.

SOURCE

TRIM8 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TRIM8 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-165791 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

TRIM8 (C-20) is recommended for detection of TRIM8 of mouse, rat and human 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TRIM family members.

TRIM8 (C-20) is also recommended for detection of TRIM8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TRIM8 siRNA (h): sc-90801, TRIM8 siRNA (m): sc-154672, TRIM8 shRNA Plasmid (h): sc-90801-SH, TRIM8 shRNA Plasmid (m): sc-154672-SH, TRIM8 shRNA (h) Lentiviral Particles: sc-90801-V and TRIM8 shRNA (m) Lentiviral Particles: sc-154672-V.

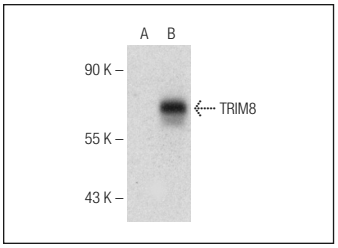
Molecular Weight of TRIM8: 61 kDa.

Positive Controls: TRIM8 (h): 293T Lysate: sc-174016.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



TRIM8 (C-20): sc-165791. Western blot analysis of TRIM8 expression in non-transfected: sc-117752 (**A**) and human TRIM8 transfected: sc-174016 (**B**) 293T whole cell lysates.

RESEARCH USE

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

MONOS Satisfaction Guaranteed

Try **TRIM8 (B-3): sc-398878**, our highly recommended monoclonal alternative to TRIM8 (C-20).