TRIM56 (D-16): sc-249084



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. TRIM proteins are involved in a wide variety of cellular processes such as cell development, proliferation, differentiation, oncogenesis and apoptosis. Many TRIM proteins are induced by type I and type II interferons, making them crucial for development of pathogen-resistance. TRIM56 (tripartite motif-containing 56), also known as RNF109 (RING finger protein 109), is a 755 amino acid protein that contains a variety of domains that are characteristic to TRIM proteins, including a RING-type zinc finger and a B box-type zinc finger. There are three isoforms of TRIM56 that are produced as a result of alternative splicing events. TRIM56 is encoded by a gene located on human chromosome 7q22.1.

REFERENCES

- Jensen, K., et al. 2001. PML protein isoforms and the RBCC/TRIM motif. Oncogene 20: 7223-7233.
- 2. Nisole, S., et al. 2005. TRIM family proteins: retroviral restriction and antiviral defence. Nat. Rev. Microbiol. 3: 799-808.
- Ozato, K., et al. 2008. TRIM family proteins and their emerging roles in innate immunity. Nat. Rev. Immunol. 8: 849-860.
- 4. Du Pasquier, L. 2009. Fish "n" TRIMs. J. Biol. 8: 50.
- McNab, F.W., et al. 2010. Tripartite-motif proteins and innate immune regulation. Curr. Opin. Immunol. 23: 46-56.
- Chu, Y. and Yang, X. 2010. SUMO E3 ligase activity of TRIM proteins. Oncogene 30: 1108-1116.
- Munir, M. 2010. TRIM proteins: another class of viral victims. Sci. Signal. 3: jc2.

CHROMOSOMAL LOCATION

Genetic locus: TRIM56 (human) mapping to 7q22.1; Trim56 (mouse) mapping to 5 G2.

SOURCE

TRIM56 (D-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM56 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249084 P, (100 μ g 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

TRIM56 (D-16) is recommended for detection of TRIM56 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 other TRIM family members.

TRIM56 (D-16) is also recommended for detection of TRIM56 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TRIM56 siRNA (h): sc-89565, TRIM56 siRNA (m): sc-154658, TRIM56 shRNA Plasmid (h): sc-89565-SH, TRIM56 shRNA Plasmid (m): sc-154658-SH, TRIM56 shRNA (h) Lentiviral Particles: sc-89565-V and TRIM56 shRNA (m) Lentiviral Particles: sc-154658-V.

Molecular Weight of TRIM56 isoforms 1/2/3: 81/34/29 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.

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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com