

**TRIM68 (P-20): sc-130049**

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. TRIM68 (Tripartite motif-containing protein 68), also known as RNF137 (RING-finger protein 137) or SS56, is a 485 amino acid protein that localizes to the perinuclear region of the cytoplasm. Expressed in a variety of tissues with higher expression in prostate, spleen and fetal liver, TRIM68 associates with androgen receptor (AR) and via this interaction, enhances the transcriptional activity of AR. TRIM68 is found in various cancers, including prostate cancer cells, and is thought to be a therapeutic target for the detection and treatment of prostate cancer. Additionally, TRIM68 is a target of the autoimmune response exhibited in systemic lupus erythematosus (SLE), primary Sjögren syndrome and HIV-1 infection.

**REFERENCES**

1. Simpson, J.C., et al. 2000. Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing. *EMBO Rep.* 1: 287-292.
2. Hartley, J.L., et al. 2000. DNA cloning using *in vitro* site-specific recombination. *Genome Res.* 10: 1788-1795.
3. Chang, G.T., et al. 2001. A novel gene on human chromosome 2p24 is differentially expressed between androgen-dependent and androgen-independent prostate cancer cells. *Eur. J. Cancer* 37: 2129-2134.
4. Billaut-Mulot, O., et al. 2001. SS-56, a novel cellular target of autoantibody responses in Sjögren syndrome and systemic lupus erythematosus. *J. Clin. Invest.* 108: 861-869.
5. Horii, K., et al. 2007. Androgen-dependent gene expression of prostate-specific antigen is enhanced synergistically by hypoxia in human prostate cancer cells. *Mol. Cancer Res.* 5: 383-391.
6. Miyajima, N., et al. 2008. TRIM68 regulates ligand-dependent transcription of androgen receptor in prostate cancer cells. *Cancer Res.* 68: 3486-3494.

**CHROMOSOMAL LOCATION**

Genetic locus: TRIM68 (human) mapping to 11p15.4.

**SOURCE**

TRIM68 (P-20) is a purified rabbit polyclonal antibody raised against TRIM68 of human origin.

**PRODUCT**

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

**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.

**APPLICATIONS**

TRIM68 (P-20) is recommended for detection of TRIM68 of human and dog 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).

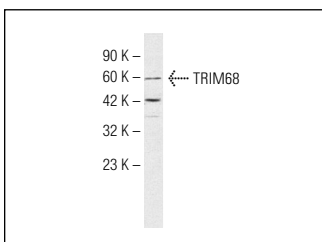
Suitable for use as control antibody for TRIM68 siRNA (h): sc-96525, TRIM68 shRNA Plasmid (h): sc-96525-SH and TRIM68 shRNA (h) Lentiviral Particles: sc-96525-V.

Molecular Weight of TRIM68: 56 kDa.

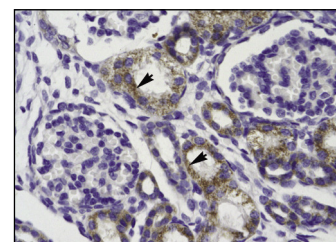
Positive Controls: DU 145 cell lysate: sc-2268 or human kidney tissue.

**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**

TRIM68 (P-20): sc-130049. Western blot analysis of TRIM68 expression in DU 145 whole cell lysate.



TRIM68 (P-20): sc-130049. Immuno-peroxidase staining of formalin fixed, paraffin-embedded human kidney showing cytoplasmic staining.

**PROTOCOLS**

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