

# TRIM68 (5G2): sc-517118

## 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 Sjogren 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 (5G2) is a mouse monoclonal antibody raised against amino acids 181-280 representing partial length TRIM68 of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## 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) for detailed protocols and support products.

## APPLICATIONS

TRIM68 (5G2) is recommended for detection of TRIM68 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

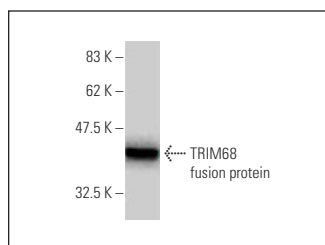
Suitable for use as control antibody for TRIM68 siRNA (h): sc-96525, TRIM68 shRNA Plasmid (h): sc-96525-SH and TRIM68 shRNA (h) Lentiviral Particles: sc-96525-V.

Molecular Weight of TRIM68: 56 kDa.

## 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, 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).

## DATA



TRIM68 (5G2): sc-517118. Western blot analysis of human recombinant TRIM68 fusion protein.

## RESEARCH USE

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