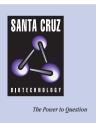
# SANTA CRUZ BIOTECHNOLOGY, INC.

# TPD52 (M-45): sc-67064



# BACKGROUND

The tumor protein D52 (TPD52) family consists of three members, TPD52, TPD52L1 (D53) and TPD52L2 (D54). These small coiled-coil motif-bearing proteins interact in hetero- and homomeric fashion. The TPD52 gene maps to chromosome 8q12, and due to amplification shows frequent overexpression in prostate and breast carcinomas. TPD52 binds to Annexin VI in a Ca<sup>2+</sup>dependent manner, suggesting that these molecules may act in concert to regulate secretory processes in plasma cells.

## REFERENCES

- Nourse, C.R., et al. 1998. Cloning of a third member of the D52 gene family indicates alternative coding sequence usage in D52-like transcripts. Biochim. Biophys. Acta 1443: 155-168.
- Byrne, J.A., et al. 1998. Identification and *in situ* hybridization mapping of a mouse Tpd52l1 (D53) orthologue to chromosome 10A4-B2. Cytogenet. Cell Genet. 81: 199-201.
- Sathasivam, P., et al. 2001. The role of the coiled-coil motif in interactions mediated by TPD52. Biochem. Biophys. Res. Commun. 288: 56-61.
- Boutros, R., et al. 2004. The tumor protein D52 family: many pieces, many puzzles. Biochem. Biophys. Res. Commun. 325: 1115-1121.
- 5. Rubin, M.A., et al. 2004. Overexpression, amplification, and androgen regulation of TPD52 in prostate cancer. Cancer 64: 3814-3822.
- Tiacci, E., et al. 2005. Tumor protein D52 (TPD52): a novel B cell/plasma cell molecule with unique expression pattern and Ca<sup>2+</sup>-dependent association with Annexin VI. Blood 105: 2812-2820.

## CHROMOSOMAL LOCATION

Genetic locus: TPD52 (human) mapping to 8q21; Tpd52 (mouse) mapping to 3 A1-A2.

#### SOURCE

TPD52 (M-45) is a rabbit polyclonal antibody raised against amino acids 1-45 mapping at the N-terminus of TPD52 of mouse origin.

## PRODUCT

Each vial contains 200  $\mu g$  IgG 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.

# **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.

#### APPLICATIONS

TPD52 (M-45) is recommended for detection of TPD52 of mouse and rat 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).

Suitable for use as control antibody for TPD52 siRNA (m): sc-45342.

Molecular Weight of TPD52: 28 kDa.

#### **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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.