



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^{2+} -dependent manner, suggesting that these molecules may act in concert to regulate secretory processes in plasma cells.

REFERENCES

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2. 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.
3. Sathasivam, P., et al. 2001. The role of the coiled-coil motif in interactions mediated by TPD52. *Biochem. Biophys. Res. Commun.* 288: 56-61.
4. 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.
6. Tiaci, E., et al. 2005. Tumor protein D52 (TPD52): a novel B cell/plasma cell molecule with unique expression pattern and Ca^{2+} -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 μ 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 μ g per 100–500 μ g 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™ 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.