

TPD52 (H-45): sc-67063

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 8q12.13, and due to amplification shows frequent overexpression in prostate and breast carcinomas. TPD52 binds to Annexin VI in a Ca²⁺-dependent manner, suggesting that these molecules may act in concert to regulate secretory processes in plasma cells.

REFERENCES

1. 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.
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.

CHROMOSOMAL LOCATION

Genetic locus: TPD52 (human) mapping to 8q21.13.

SOURCE

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

PRODUCT

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

APPLICATIONS

TPD52 (H-45) is recommended for detection of TPD52 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)], 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 (h): sc-45341, TPD52 shRNA Plasmid (h): sc-45341-SH and TPD52 shRNA (h) Lentiviral Particles: sc-45341-V.

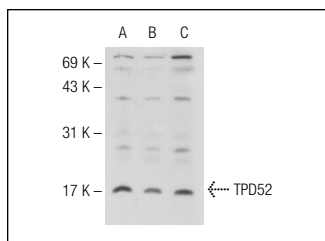
Molecular Weight of TPD52: 28 kDa.

Positive Controls: Ramos cell lysate: sc-2216, BJAB whole cell lysate: sc-2207 or Raji whole cell lysate: sc-364236.

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.

DATA



TPD52 (H-45): sc-67063. Western blot analysis of TPD52 expression in Raji (A), BJAB (B) and Ramos (C) whole cell lysates.

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.

MONOS
Satisfaction
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Try **TPD52 (A-6): sc-166732**, our highly recommended monoclonal alternative to TPD52 (H-45).