

TRIM36 (SS-03): sc-100881

BACKGROUND

TRIM36 (tripartite motif-containing 36), also known as RNF98 (RING finger protein 98), HAPRIN (haploid germ cell-specific RBCC protein) or RBCC728, is a 728 amino acid protein that belongs to the TRIM/RBCC (Ring finger, B box, coiled-coil) family. Predominantly expressed in prostate, testis and brain with weak expression in heart, kidney and lung, TRIM36 contains two B box-type zinc fingers, a SPRY domain, a coiled-coil domain, a fibronectin type-III domain and a RING-type zinc finger; a motif that has zinc-chelating activity and is involved in mediating protein-protein and protein-DNA interactions. Localizing to the cytoplasm and the acrosomal region of germ cells and mature sperm, TRIM36 is believed to play a role in the acrosome reaction and fertilization. In addition, TRIM36 is overexpressed in prostate cancer, suggesting a possible role for TRIM36 in prostate tumorigenesis.

REFERENCES

1. Reymond, A., et al. 2001. The tripartite motif family identifies cell compartments. *EMBO J.* 20: 2140-2151.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609317. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Kitamura, K., et al. 2003. Haprin, a novel haploid germ cell-specific RING finger protein involved in the acrosome reaction. *J. Biol. Chem.* 278: 44417-44423.

CHROMOSOMAL LOCATION

Genetic locus: TRIM36 (human) mapping to 5q22.3.

SOURCE

TRIM36 (SS-03) is a mouse monoclonal antibody raised against recombinant TRIM36 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TRIM36 (SS-03) is recommended for detection of TRIM36 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), 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 TRIM36 siRNA (h): sc-91989, TRIM36 shRNA Plasmid (h): sc-91989-SH and TRIM36 shRNA (h) Lentiviral Particles: sc-91989-V.

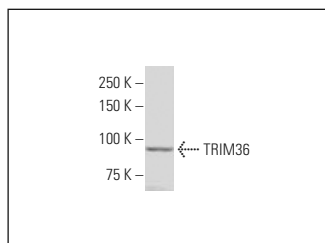
Molecular Weight of TRIM36: 83 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

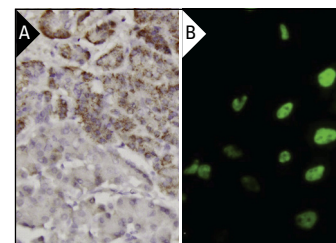
RECOMMENDED SUPPORT REAGENTS

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, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



TRIM36 (SS-03): sc-100881. Western blot analysis of TRIM36 expression in IMR-32 whole cell lysate.



TRIM36 (SS-03): sc-100881. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human pancreas tissue showing cytoplasmic localization (A). Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization (B).

SELECT PRODUCT CITATIONS

1. Yan, H., et al. 2022. Extracellular polysaccharide from *Rhizopus nigricans* inhibits hepatocellular carcinoma via miR-494-3p/TRIM36 axis and cyclin E ubiquitination. *J. Clin. Transl. Hepatol.* 10: 608-619.
2. Yu, S., et al. 2022. TRIM36 enhances lung adenocarcinoma radiosensitivity and inhibits tumorigenesis through promoting Rad51 ubiquitination and antagonizing hsa-miR-376a-5p. *Biochem. Biophys. Res. Commun.* 628: 1-10.

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 for detailed protocols and support products.