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


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 IgG\(\kappa\) 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.