

TNP1 (B-25): sc-134100

BACKGROUND

TNP1 (transition protein 1), also known as TP1 or STP1 (spermatid nuclear transition protein 1), is a 55 amino acid nuclear protein that belongs to the nuclear transition protein family. Expressed specifically in the testis, TNP1 is a spermatid-specific protein that functions as a basic chromosomal transition protein during the conversion of nucleosomal chromatin to the compact, non-nucleosomal form found in sperm nuclei. During spermatogenesis, TNP1, a product of the haploid genome, replaces histone and is subsequently replaced by protamines in mature sperm. Although TNP1 is present for only a short amount of time during sperm maturation, it is thought to play an essential role in male fertility.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TNP1 (human) mapping to 2q35.

SOURCE

TNP1 (B-25) is an affinity purified rabbit polyclonal antibody raised against synthetic TNP1 peptide of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and <0.02% sucrose.

APPLICATIONS

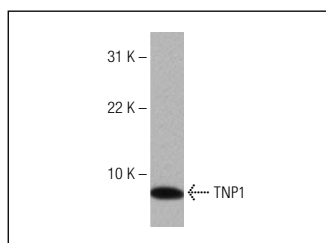
TNP1 (B-25) is recommended for detection of TNP1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TNP1 siRNA (h): sc-106912, TNP1 shRNA Plasmid (h): sc-106912-SH and TNP1 shRNA (h) Lentiviral Particles: sc-106912-V.

Molecular Weight of TNP1: 6 kDa.

Positive Controls: 721 B whole cell lysate.

DATA



TNP1 (B-25): sc-134100. Western blot analysis of TNP1 expression in 721B whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.