

SPATA25 (H-3): sc-374631

BACKGROUND

SPATA25 (spermatogenesis-associated protein 25), also known as TSG23 (testis-specific gene 23 protein), is a 227 amino acid single-pass membrane protein that is thought to play a role in spermatogenesis. Predominantly expressed in testis, SPATA25 is found at 60-fold higher levels in adult testis than fetal testis. The gene encoding SPATA25 maps to human chromosome 20q13.12 and mouse chromosome 2 H3. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought to be important for seminal production and may be potential targets for male contraception.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SPATA25 (human) mapping to 20q13.12.

SOURCE

SPATA25 (H-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 9-45 within an internal region of SPATA25 of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG₃ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-374631 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

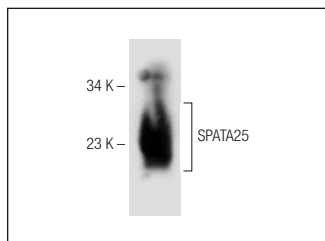
SPATA25 (H-3) is recommended for detection of SPATA25 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SPATA25 siRNA (h): sc-72715, SPATA25 shRNA Plasmid (h): sc-72715-SH and SPATA25 shRNA (h) Lentiviral Particles: sc-72715-V.

Molecular Weight of SPATA25: 24 kDa.

Positive Controls: human testis extract: sc-363781.

DATA



SPATA25 (H-3): sc-374631. Western blot analysis of SPATA25 expression in human testis tissue extract.

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.