

SPATA24 (D-13): sc-168451

BACKGROUND

SPATA24 (spermatogenesis-associated protein 24), also known as testis protein T6441 homolog, is a 205 amino acid cytoplasmic and nuclear protein that belongs to the SPATA24 family and is associated with chromatin. While it binds DNA with high affinity, SPATA24 does not bind to TATA boxes. Existing as a homodimer, SPATA24 may play a role in cytoplasm movement and removal during spermiogenesis. The gene that encodes SPATA24 consists of approximately 7,526 bases and maps to human chromosome 5q31.2. With 181 million base pairs encoding around 1,000 genes, chromosome 5 makes up about 6% of the human genome. Deletion of the p arm of chromosome 5 leads to cri du chat syndrome and deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SPATA24 (human) mapping to 5q31.2; Spata24 (mouse) mapping to 18 B2.

SOURCE

SPATA24 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SPATA24 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.

Blocking peptide available for competition studies, sc-168451 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPATA24 (D-13) is recommended for detection of SPATA24 of mouse and human origin and RGD1311742 of rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 SPATA24 siRNA (h): sc-91998, SPATA24 siRNA (m): sc-140346, SPATA24 shRNA Plasmid (h): sc-91998-SH, SPATA24 shRNA Plasmid (m): sc-140346-SH, SPATA24 shRNA (h) Lentiviral Particles: sc-91998-V and SPATA24 shRNA (m) Lentiviral Particles: sc-140346-V.

Molecular Weight of SPATA24 isoforms: 24/21 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.