

SSX4/4B (P-16): sc-324361

BACKGROUND

SSX4 (synovial sarcoma, X breakpoint 4), also known as SSX4B or CT5.4 (cancer/testis antigen 5.4), is a 188 amino acid protein that contains one KRAB-related domain and belongs to the family of highly homologous synovial sarcoma X (SSX) breakpoint proteins that may function as transcriptional modulators. The SSX proteins are also capable of eliciting spontaneously humoral and cellular immune responses in cancer patients and are potentially useful targets in cancer vaccine-based immunotherapy. The gene that encodes SSX4 contains 9,821 bases and maps to human chromosome Xp11.23. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. Color blindness, hemophilia and Duchenne muscular dystrophy are well known X chromosome-linked conditions that affect males more frequently, as males carry a single X chromosome.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: SSX4/SSX4B (human) mapping to Xp11.23.

SOURCE

SSX4/4B (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SSX4 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-324361 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SSX4/4B (P-16) is recommended for detection of SSX4 and SSX4B of human 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); may cross-react with other SSX members.

Molecular Weight of SSX4/4B: 22 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.

RESEARCH USE

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