

# SPACA5 (Y-20): sc-244194

## BACKGROUND

SPACA5 (sperm acrosome-associated protein 5), also known as lysozyme-like protein 5 or sperm-specific lysozyme-like protein X (SLLP-X), is a 150 amino acid secreted protein belonging to the glycosyl hydrolase 22 family. Acting as a component of the perinuclear theca and the acrosome, two structures present on the sperm head, SPACA5 may be a factor in sperm head defects. The gene encoding SPACA5 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 which affect males more frequently than females as males carry a single X chromosome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SPACA5 (human) mapping to Xp11.23; Spaca5 (mouse) mapping to X A1.3.

## SOURCE

SPACA5 (Y-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPACA5 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244194 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SPACA5 (Y-20) is recommended for detection of SPACA5 of mouse, rat and 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); non cross-reactive with SPACA1, SPACA3 or SPACA4.

SPACA5 (Y-20) is also recommended for detection of SPACA5 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for SPACA5 siRNA (h): sc-91003, SPACA5 siRNA (m): sc-153698, SPACA5 shRNA Plasmid (h): sc-91003-SH, SPACA5 shRNA Plasmid (m): sc-153698-SH, SPACA5 shRNA (h) Lentiviral Particles: sc-91003-V and SPACA5 shRNA (m) Lentiviral Particles: sc-153698-V.

Molecular Weight of SPACA5: 18 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](http://www.scbt.com) or our catalog for detailed protocols and support products.