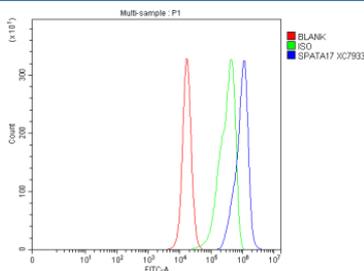


SPATA17 Antibody / Spermatogenesis-associated protein 17 (FY12290)

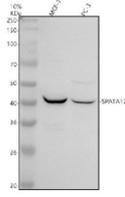
Catalog No.	Formulation	Size
FY12290	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

[Bulk quote request](#)

Availability	1-2 days
Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q96L03
Applications	Western Blot : 0.25-0.5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This SPATA17 antibody is available for research use only.



Flow Cytometry analysis of PC-3 cells using anti-SPATA17 antibody. Overlay histogram showing PC-3 cells stained with (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SPATA17 antibody (1 ug/million cells) for 30 min at 20oC. DyLight 488 conjugated goat anti-rabbit IgG (5-10 ug/million cells) was used as secondary antibody for 30 minutes at 20oC. Isotype control antibody (Green line) was rabbit IgG (1 ug/million cells) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Western blot analysis of SPATA17 using anti-SPATA17 antibody. Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: human MCF-7 whole cell lysates, Lane 2: human PC-3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SPATA17 antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using an ECL Plus Western Blotting Substrate. The predicted molecular weight of SPATA17 is ~43 kDa.

Description

SPATA17 antibody detects Spermatogenesis-associated protein 17, encoded by the SPATA17 gene on chromosome 1p36.32. SPATA17 antibody is used in reproductive biology and apoptosis research. SPATA17 is a nuclear protein expressed mainly in testes, where it contributes to spermatogenesis, chromatin remodeling, and germ cell maturation. Outside the reproductive system, SPATA17 is implicated in apoptosis regulation, linking it to broader cellular homeostasis and disease mechanisms.

Structurally, SPATA17 is a ~43 kDa protein that localizes to the nucleus and mitochondria under stress conditions. It contains coiled-coil domains and nuclear localization signals, supporting its dual role in transcriptional regulation and apoptosis. Alternative isoforms may regulate tissue-specific expression and functions.

Functionally, SPATA17 participates in meiotic progression and germ cell differentiation. It promotes chromatin condensation in spermatids and has been reported to activate caspase-dependent apoptosis under stress, suggesting a quality-control role in germline maintenance. Researchers use SPATA17 antibody to study germ cell biology, testis development, and programmed cell death.

Clinically, SPATA17 expression correlates with male infertility, where altered protein levels disrupt spermatogenesis. Dysregulation has also been linked to certain cancers, including testicular and gastric cancer, where it may influence apoptosis. NSJ Bioreagents provides SPATA17 antibody to support research in fertility, cancer, and cell death pathways.

Experimentally, SPATA17 antibody is applied in western blotting to detect the ~43 kDa protein, in immunohistochemistry to study testis-specific expression, and in immunofluorescence to monitor nuclear and mitochondrial localization. Co-immunoprecipitation using SPATA17 antibody helps identify apoptotic signaling partners.

Application Notes

Optimal dilution of the SPATA17 antibody should be determined by the researcher.

Immunogen

E.coli-derived human SPATA17 recombinant protein (Position: M1-Q338) was used as the immunogen for the SPATA17 antibody.

Storage

After reconstitution, the SPATA17 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

