

SPATA5 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI13462

Product Information

Application WB
Primary Accession Q8NB90

Other Accession <u>NM 145207</u>, <u>NP 660208</u>

Reactivity Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse

Predicted Mouse, Rat, Rabbit, Pig, Guinea Pig, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 97904

Additional Information

Gene ID 166378

Alias Symbol AFG2, SPAF

Other Names Spermatogenesis-associated protein 5, ATPase family protein 2 homolog,

Spermatogenesis-associated factor protein, SPATA5, AFG2, SPAF

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-SPATA5 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions SPATA5 antibody - middle region is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name AFG2A (<u>HGNC:18119</u>)

Function ATP-dependent chaperone part of the 55LCC heterohexameric ATPase

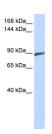
complex which is chromatin-associated and promotes replisome proteostasis to maintain replication fork progression and genome stability. Required for replication fork progression, sister chromatid cohesion, and chromosome stability. The ATPase activity is specifically enhanced by replication fork DNA and is coupled to cysteine protease- dependent cleavage of replisome substrates in response to replication fork damage. Uses ATPase activity to process replisome substrates in S- phase, facilitating their proteolytic turnover from chromatin to ensure DNA replication and mitotic fidelity (PubMed:38554706). Plays an essential role in the cytoplasmic maturation

steps of pre-60S ribosomal particles by promoting the release of shuttling protein RSL24D1/RLP24 from the pre-ribosomal particles (PubMed:35354024, PubMed:38554706). May be involved in morphological and functional mitochondrial transformations during spermatogenesis (By similarity).

Cellular Location

 $\label{thm:cytoplasm} \mbox{Cytoplasm. Mitochondrion {ECO:0000250 | UniProtKB:Q3UMC0}. Cytoplasm, cytoskeleton, spindle} \\$

Images



WB Suggested Anti-SPATA5 Antibody Titration: 0.2-1

μg/ml

ELISA Titer: 1:62500

Positive Control: 293T cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.