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SPATA5 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56771

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8NB90
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97904

Additional Information

Gene ID	166378
Other Names	ATPase family protein 2 homolog, 3.6.4.10, Spermatogenesis-associated factor protein, Spermatogenesis-associated protein 5, SPATA5, AFG2, SPAF
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	AFG2A (HGNC:18119)
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	Cytoplasm. Mitochondrion {ECO:0000250|UniProtKB:Q3UMC0}. Cytoplasm, cytoskeleton, spindle

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