

# SPATA4 Antibody

Catalog # ASC11395

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">Q8NEY3</a>
<b>Other Accession</b>	<a href="#">NP_653245</a> , <a href="#">31543825</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	34751
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	SPATA4 antibody can be used for detection of SPATA4 by Western blot at 1 - 2 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	132851
<b>Other Names</b>	Spermatogenesis-associated protein 4, Testis and spermatogenesis cell-related protein 2, Testis spermatocyte apoptosis-related gene 2 protein, SPATA4, TSARG2
<b>Target/Specificity</b>	SPATA4; At least two isoforms of SPATA4 are known to exist; this antibody will detect both isoforms. SPATA4 antibody is predicted to not cross-react with SPATA protein family members
<b>Reconstitution &amp; Storage</b>	SPATA4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	SPATA4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SPATA4
<b>Synonyms</b>	TSARG2
<b>Function</b>	May play a role in apoptosis regulation.
<b>Cellular Location</b>	Nucleus.

## Tissue Location

Highly expressed in testis, the expression is observed precisely in seminiferous tubules

## Background

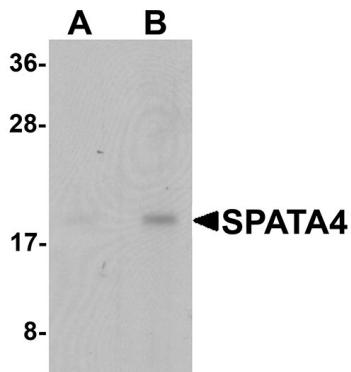
SPATA4 Antibody: The spermatogenesis associated protein 4 (SPATA4) protein, also known as TSARG1, is highly expressed in testis, and to a much lower extent in other tissues. SPATA4 contains a highly conserved DUF1042 domain, but no significant homology with any other known protein. SPATA4 is thought to play an important role in the development of cryptorchid testis and is a testis-specific apoptosis candidate oncogene.

## References

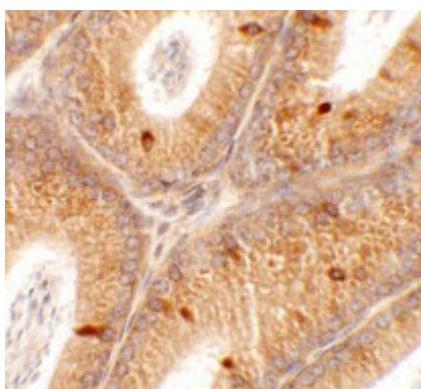
Liu SF, Lu GX, Liu G, et al. Cloning of a full-length cDNA of human testis-specific spermatogenic cell apoptosis inhibitor TSARG2 as a candidate oncogene. *Biochem. Biophys. Res. Commun.* 2004; 319:32-40

Liu SF, Ai C, Ge ZQ, et al. Molecular cloning and bioinformatic analysis of SPATA4 gene. *J. Biochem. Mol. Biol.* 2005; 38:739-47.

## Images

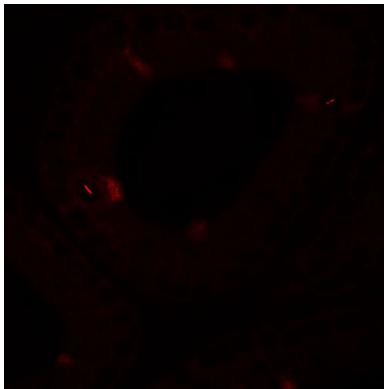


Western blot analysis of SPATA4 in mouse stomach tissue lysate with SPATA4 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of SPATA4 in mouse testis tissue with SPATA4 antibody at 2.5 µg/mL.

Immunofluorescence of SPATA4 in mouse testis tissue with SPATA4 antibody at 20 µg/mL.



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