

Datasheet for 600-401-ES6**SPATA1 Antibody****Overview**

Description:	Anti-SPATA1 (RABBIT) Antibody - 600-401-ES6
Item No.:	600-401-ES6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	SPATA1, a novel cell-surface protein, is involved in shaping the sperm head during spermatogenesis. SPATA1 is localized at chromosome 1q21. At least three isoforms of SPATA1 are known to exist. The longest is preferentially expressed in hematopoietic tissues. Its extracellular domain contains a single immunoglobulin-like domain, and its intracellular segment has two immunoreceptor tyrosine-based inhibition motifs (ITIMs). It is thought to have an important role in hematopoietic cell signaling. The mid-sized isoform contains a short intracellular part without ITIMs, while the shortest isoform lacks the transmembrane segment and represents a potential soluble protein (2, 3).
Synonyms:	SPATA1 Antibody, SP-2, SPAP1, Spermatogenesis-associated protein 1, Sperm-specific protein SP-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SPATA1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SPATA1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human SPATA1.

Purity/Specificity: Anti-SPATA1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of SPATA1 are known to exist; this antibody will detect only the longest isoforms. SPATA1 antibody is predicted to not cross-react with other SPATA family members.

Relevant Links:

- [UniProtKB - Q5VX52](#)
- [GeneID - 100505741](#)
- [NCBI - NP_001297085.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-SPATA1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 2.5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

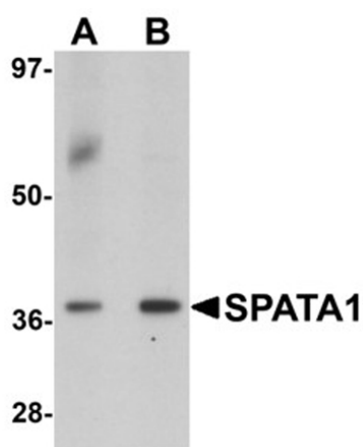
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

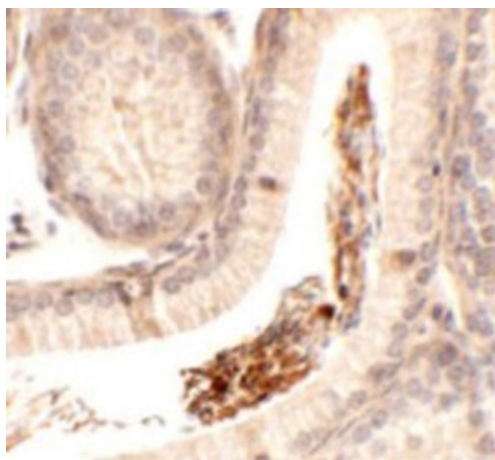


Western Blot

Western blot analysis of SPATA1.

Cell: A20 cell lysate.

Primary Antibody: SPATA1 antibody at (A) 1 µg/mL and (B) 2 µg/mL.

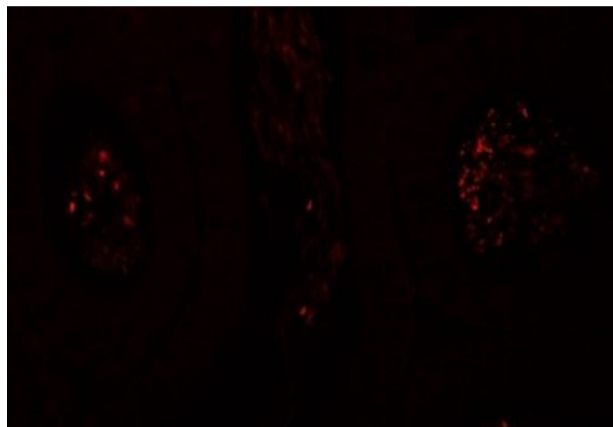


Immunohistochemistry

Immunohistochemistry of SPATA1.

Tissue: mouse testis tissue.

Primary Antibody: SPATA1 antibody at 2.5 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of SPATA1.

Tissue: mouse testis tissue.

Primary Antibody: SPATA1 antibody at 20 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.