

Datasheet for 600-401-MP9S**Scp3 Antibody****Overview**

Description:	Anti-Scp3 (RABBIT) Antibody - 600-401-MP9S
Item No.:	600-401-MP9S
Size:	25 µL
Applications:	ELISA, IHC, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Synaptonemal complex protein 3 (Scp3) is a component of the synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase. These proteins are required for centromere pairing during meiosis in male germ cells. It is required for normal meiosis during spermatogenesis and male fertility but plays a lesser role in female fertility. Required for efficient phosphorylation of HORMAD1 and HORMAD2. Mutations in this gene are associated with azoospermia in males and susceptibility to pregnancy loss in females. Anti-Scp3 Antibody is useful for researchers interested in Meiosis, Mitotic Cell Cycle, and fertility.
Synonyms:	Rabbit Anti-Synaptonemal complex protein 3 Antibody, SCP-3, Sycp3, Scp3, Synaptonemal complex protein 3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Sycp3
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide

Immunogen: Anti-Scp3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a near N-terminal region of mouse Scp3 conjugated to Keyhole Limpet Hemocyanin (KLH).

Purity/Specificity: This affinity purified antibody is directed against mouse Scp3. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to mouse and golden hamster and 93% to rat.

Relevant Links:

- [UniProtKB - P70281](#)
- [NCBI - NP_035647.2](#)
- [GeneID - 20962](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-Scp3 Antibody has been tested in ELISA, WB, and IHC. Positive control used: Mouse Testis Lysate (p/n W10-000-GZ2) in Western Blot; Mouse Testis in Immunohistochemistry.

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

ELISA: 1:10,000 - 1:50,000

IHC: 1:100

WB: 5µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

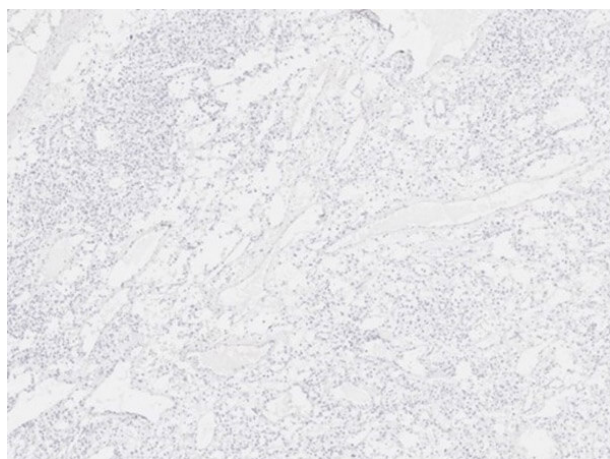
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

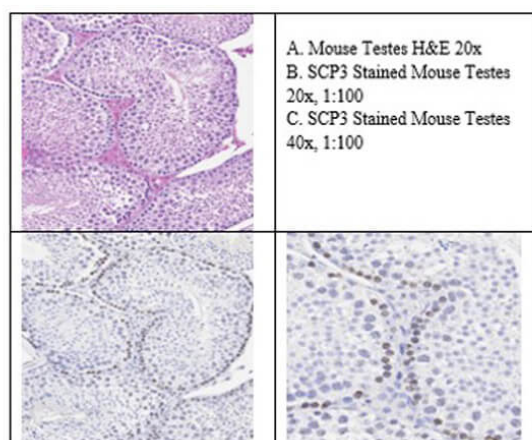
Expiration: Expiration date is one (1) year from date of receipt.

Images



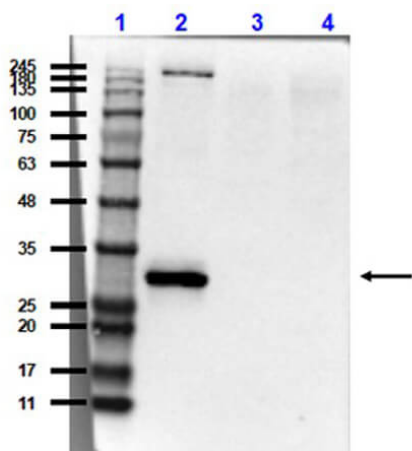
Immunohistochemistry

Immunohistochemistry of Rabbit Anti-Scp3 Antibody - Negative Control. Tissue: Human Kidney. Antigen Retrieval: HIER pH 6. Fixative: none. Primary Antibody: Anti-Scp3 at 1:100 for 30min at RT. Secondary Antibody: Anti-Rabbit Poly-HRP-IgG Ready to Use for 8 min at RT. CounterStain: Hematoxylin. Substrate: DAB. Magnification: 5X. Analysis Results: Scp3 showed no staining at 1:100 on negative control tissue. Scp3 antibody suitable for IHC.



Immunohistochemistry

Immunohistochemistry of Rabbit Anti-Scp3 Antibody. Tissue: Mouse Testis. Antigen Retrieval: HIER using Citrate buffer for 20 min. Fixative: none. Primary Antibody: Anti-Scp3 at 1:100 for 30min at RT. Secondary Antibody: Anti-Rabbit Poly-HRP-IgG Ready to Use for 8 min at RT. CounterStain: Hematoxylin. Substrate: DAB. Analysis Results: Scp3 showed weak to moderate nuclear staining of spermatocytes. Other germ cells did not stain. The specificity of the nuclear staining is consistent with Scp3 staining.



Western Blot

Western Blot of Rabbit Anti-Scp3 Antibody. Lane 1: Opal Prestained Marker (p/n MB-210-0500). Lane 2: Mouse Testis, adult, Whole Cell Lysate (p/n W10-000-GZ2) [+]. Lane 3: Human Testis, adult, Whole Tissue Lysate. Lane 4: NIH/3T3 Whole Cell Lysate (p/n W10-000-358). Load: 35µg lysate/lane. Primary Antibody: Anti-Scp3 at 5µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 at RT for 60min. Block: 5% BLOTTO (p/n B501-0500). Predicted MW: ~29.3kDa. Observed MW: ~29, 245 kDa. Exposure: 30 sec.

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.