

## Anti-SCP3 antibody (ab15093)

★★★★★ 3 Abreviews

NCBI 8 References

4 Images

URL for this product: <http://www.abcam.com/SCP3-antibody-ab15093.html>

### Product overview

Description	Rabbit polyclonal to SCP3
Host species	Rabbit
Tested applications	IHC-P, ICC/IF, IHC-Fr, IHC-FoFr
Cross reactivity	<b>Reacts with</b> Mouse, Rat, Human, Pig
Immunogen	Synthetic peptide (Human) (C terminal).

### Target

Function	Component of the transverse filaments of synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase. Has an essential meiotic function in spermatogenesis. May be important for testis development.
Tissue specificity	Testis-specific.
Involvement in disease	Defects in SYCP3 are a cause of azoospermia due to perturbations of meiosis (AZSPM) [MIM:270960]. AZSPM is a condition of having no sperm present in the ejaculate. Testicular histology shows arrest of spermatogenesis at the pachytene stage of primary spermatocytes.
Sequence similarities	Belongs to the XLR/SYCP3 family.
Cellular localization	Nucleus. In tripartite segments of synaptonemal complexes, irrespective of whether these are synapsed or unsynapsed.

Target information above from: UniProt accession [Q8IZU3](#) *The UniProt Consortium*

**The Universal Protein Resource (UniProt) in 2010**

[Nucleic Acids Res. 38:D142-D148 \(2010\).](#)

Alternative names	COR 1 antibody COR1 antibody MGC71888 antibody RNASCP3 antibody SCP 3 antibody SCP-3 antibody Sycp 3 antibody Sycp3 antibody SYCP3_HUMAN antibody Synaptonemal complex protein 3 antibody
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### Properties

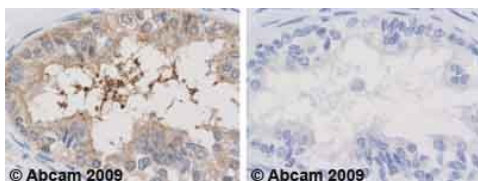
Form	Liquid
Storage instructions	Store at +4°C.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: Tris citrate/phosphate. pH 7-8 See the website for more SDS information for this product.
Concentration	1mg/ml
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

IHC-P	IHC-P: 1/400.
ICC/IF	ICC/IF: Use at an assay dependent dilution.
IHC-Fr	IHC-Fr: 1/500.
IHC-FoFr	IHC-FoFr: 1/500. (see Abreview)

## Images (See the website for higher resolution images of this product)



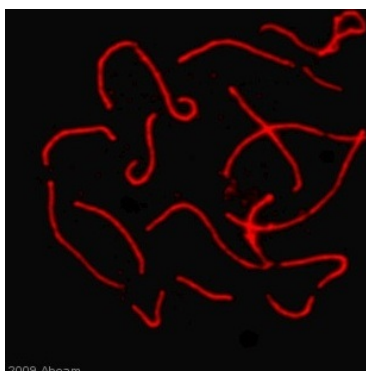
SCP3 labeled in mouse pachytene preparation (red), using ab15093. CDK2 staining, near telomeres, is also present (green).



Ab15093 staining human normal testis tissue. Staining is localized to nuclear compartment.

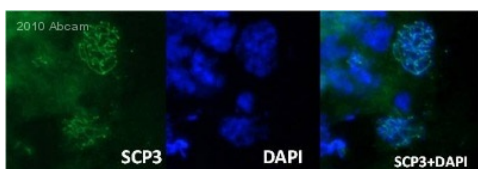
Left panel: with primary antibody at 4 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus, at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H<sub>2</sub>O<sub>2</sub> in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS), then incubated with primary antibody for 20 minutes, and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



ab15093 staining SCP3 in pig spermatocytes by Immunocytochemistry/Immunofluorescence. Cells were fixed with formaldehyde, permeabilized with Triton x100 and blocking with 0.15% BSA was performed for 30 minutes at 25°C. Samples were incubated with primary antibody (1/100: in PBT: PBS + 0.15% BSA + 0.1% Tween 20) for 12 hours at 25°C. An Alexa Fluor®594-conjugated donkey polyclonal to rabbit IgG was used at dilution at 1/100 as secondary antibody.

This Image is courtesy of an anonymous Abreview



ab15093 staining SCP3 (green) in Rat testis (spermatocytes) tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with formaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 5% BSA for 2 hours at 25°C. Samples were incubated with primary antibody (1/500 in PBS) for 2 hours at 25°C. An Alexa Fluor®488-conjugated Goat anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody. Nuclei were stained by DAPI (blue).

This image is courtesy of an anonymous Abreview

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