

## Product datasheet

# Anti-SCP3 antibody ab235254

3 Images

### Overview

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<b>Product name</b>	Anti-SCP3 antibody
<b>Description</b>	Rabbit polyclonal to SCP3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Mouse testis whole tissue lysate. IHC-P: Mouse testis tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituent: PBS
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab235254 in the following tested applications.

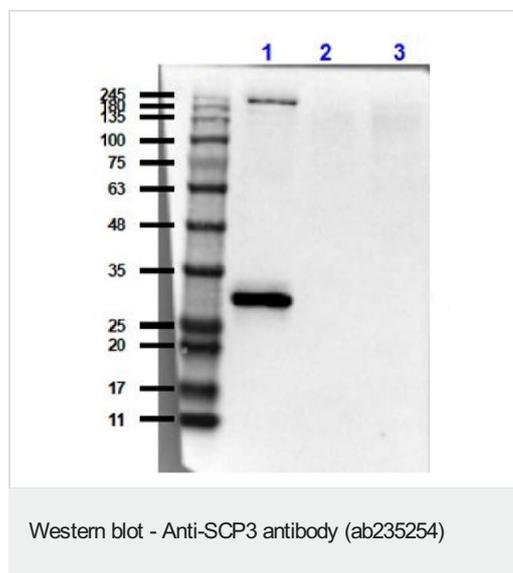
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 5 µg/ml. Predicted molecular weight: 28 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Testis-specific.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the XLR/SYCP3 family.
<b>Cellular localization</b>	Nucleus. In tripartite segments of synaptonemal complexes, irrespective of whether these are synapsed or unsynapsed.

## Images



**All lanes :** Anti-SCP3 antibody (ab235254) at 5 µg/ml

**Lane 1 :** Mouse testis whole tissue lysate

**Lane 2 :** Human testis whole tissue lysate

**Lane 3 :** NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 35 µg per lane.

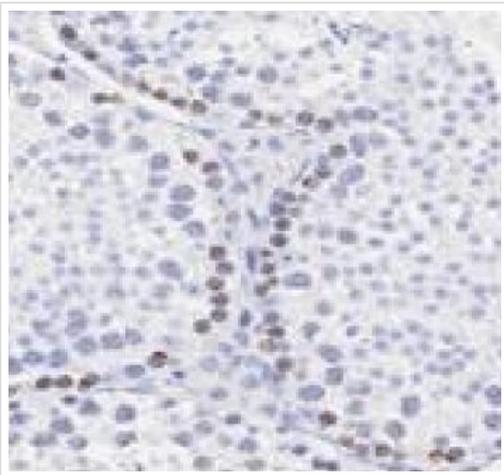
### Secondary

**All lanes :** Goat anti-Rabbit IgG at 1/70000 dilution

**Predicted band size:** 28 kDa

**Exposure time:** 30 seconds

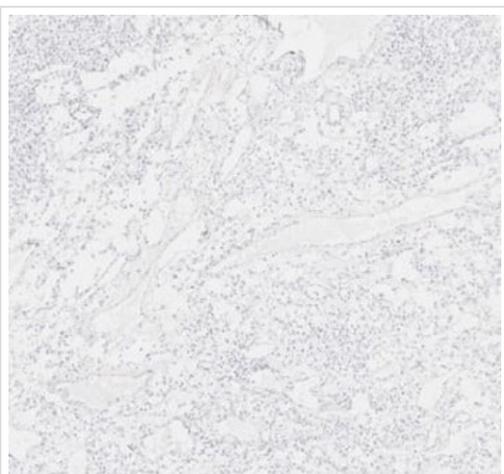
Blocking buffer: 5% BLOTTO.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCP3 antibody (ab235254)

Immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded mouse testis tissue sections labeling SCP3 with ab235254 at a 1/100 dilution (30mins at RT), followed by a ready to use anti-Rabbit poly-HRP-IgG secondary (8mins at RT).

Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCP3 antibody (ab235254)

**Negative control:** Immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded human kidney tissue sections labeling SCP3 with ab235254 at a 1/100 dilution (30mins at RT), followed by a ready to use anti-Rabbit poly-HRP-IgG secondary (8mins at RT).

Counterstained with hematoxylin.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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