Product Datasheet

SCP3/SYCP3 Antibody
NB300-232

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

Reviews: 1  Publications: 42

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# NB300-232
SCP3/SYCP3 Antibody

## Product Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4°C. Do not freeze.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.09% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
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## Product Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>50511</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>SYCP3</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat, Porcine, Bovine, Chicken, Feline, Parasite</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Rat, pig, bovine and mouse. Chicken reactivity reported in scientific literature (PMID: 26096940). Parasite, and Feline reactivity reported in scientific literature (PMID: 27084479). Human reactivity has been observed in IHC. Human reactivity reported in scientific literature (PMID: 29231814).</td>
</tr>
<tr>
<td>Immunogen</td>
<td>A synthetic peptide made to the C-terminal region of the human SCP3 protein. [UniProt# Q8IZU3]</td>
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## Product Application Details

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Western Blot, Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation</td>
</tr>
<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 0.5 ug/ml, Immunohistochemistry 1:500 - 1:1500, Immunocytochemistry/Immunofluorescence 1:100-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:500 - 1:1500, Immunohistochemistry-Frozen 1:200-1:500, Immunoblotting</td>
</tr>
<tr>
<td>Application Notes</td>
<td>This SCP3 antibody is useful for Immunofluorescence, Immunohistochemistry (Frozen and Paraffin), Immunocytochemistry and Western blot where a band is seen at ~28 kDa. Use in immunoblotting reported in scientific literature (PMID: 27612028). Use in immunoprecipitation reported in scientific literature (PMID: 18694876).</td>
</tr>
</tbody>
</table>
Immunohistochemistry-Paraffin: SCP3/SYCP3 Antibody [NB300-232] -
IHC analysis of a formalin fixed and paraffin embedded tissue section of
Mouse testis using SCP3 antibody at 1:1000 dilution. The signal was
detected using HRP-DAB detection method and the nuclei were
counterstained with hematoxylin. The antibody generated a specific
signal of SCP3 in the spermatogonial cells and the spermatocytes. The
signal was strongest in the nuclei of spermatogonial cells.

Immunohistochemistry-Paraffin: SCP3/SYCP3 Antibody [NB300-232] -
IHC-P analysis of formalin fixed paraffin embedded tissue section of
mouse testes using SCP3 antibody at 1:200 dilution. Specific staining
may be seen in the spermatogonial cells and the primary spermatocytes.

Immunocytochemistry/Immunofluorescence: SCP3/SYCP3 Antibody
pachytene preparation (red), using NB300-232 SCP3 antibody. CDK2
staining, near telomeres, is also present (green).

Western Blot: SCP3/SYCP3 Antibody [NB300-232] - SCP3 Antibody

Publications


Mu X, Wen J, Chen Q et al. Retinoic acid-induced CYP51 nuclear translocation promotes meiosis prophase I process and is correlated to the expression of REC8 and STAG3 in mice. Biol Open. Nov 12 2018 12:00AM [PMID: 30420384] (ICC/IF, Mouse)


Procedures

Protocol specific for SCP3 Antibody (NB300-232)

Immunofluorescence Procedure

1. Freshly prepared slides are soaked in 1X ADB for 75 minutes.
2. Primary antibodies are added concurrently (SCP3 and CDK2).
3. The primary antibodies are incubated overnight in a humid chamber (37 degrees Celcius).
4. The slides are washed for 40 minutes in 1X ADB.
5. The slides are detected with the appropriate secondary antibodies (RDAR for SCP1 and FDAM for CDK2).
6. The slides are incubated for 4 hours in a humid chamber (37 degrees Celcius).
7. The slides are washed for 20 minutes in 1X ADB, followed by 3 washes, 10 minutes each, in 1X PBS.
8. The slides are counterstained with DAPI.
9. Images are captured after allowing the slides to remain in the dark overnight at RT.

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.*
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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