

For Research Use Only

# SCML1 Polyclonal antibody

Catalog Number: 15093-1-AP



## Basic Information

<b>Catalog Number:</b> 15093-1-AP	<b>GenBank Accession Number:</b> BC026159	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 160 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6322	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:400-1:1600
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UN30	
<b>Isotype:</b> IgG	<b>Full Name:</b> sex comb on midleg-like 1 (Drosophila)	
<b>Immunogen Catalog Number:</b> AG5107	<b>Calculated MW:</b> 37 kDa	
	<b>Observed MW:</b> 30-35 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> A549 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse testis tissue,
	<b>IF/ICC :</b> A549 cells,

## Background Information

Sex comb on midleg-like 1 (SCML1) is a meiosis-specific protein and is an essential component of the meiotic dense body. SCML1 is preferentially expressed in germ stem cells of testis, therefore likely involved in spermatogenesis.

## Storage

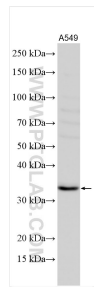
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

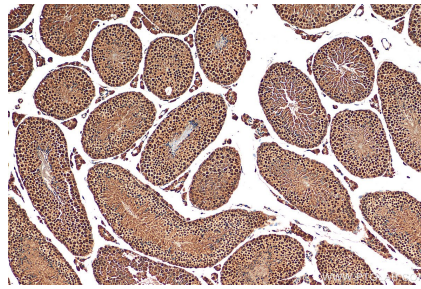
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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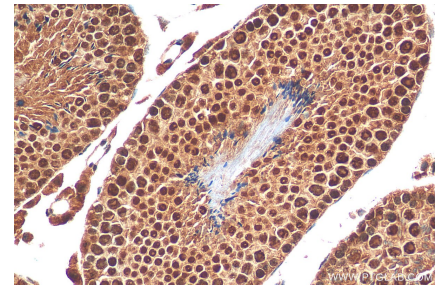
## Selected Validation Data



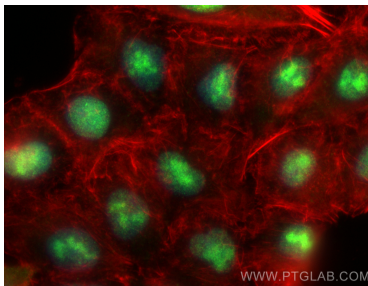
A549 cells were subjected to SDS PAGE followed by western blot with 15093-1-AP (SCML1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



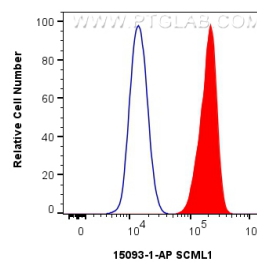
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 15093-1-AP (SCML1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 15093-1-AP (SCML1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using SCML1 antibody (15093-1-AP) at dilution of 1:800 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



$1 \times 10^6$  A549 cells were intracellularly stained with 0.25  $\mu$ g SCML1 Polyclonal antibody (15093-1-AP) and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).