

For Research Use Only

# HOXA9 Polyclonal antibody

Catalog Number: 18501-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

18501-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13350

### GenBank Accession Number:

BC010023

### GeneID (NCBI):

3205

### UNIPROT ID:

P31269

### Full Name:

homeobox A9

### Calculated MW:

30 kDa

### Observed MW:

40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, ChIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: EC109 cells, A431 cells, HaCaT cells

IP: mouse appendix tissue,

IHC: mouse skin tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

HOXA9, also known as HOX1G, belongs to the Abd-B homeobox family and transiently interacts with PRMT5 in TNF- $\alpha$  stimulated endothelial cells. HOXA9 is methylated on Arg-140 by PRMT5 and methylation is critical for E-selectin induction. HOXA9 as a sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. HOXA9 is required for induction of E-selectin and VCAM-1, on the endothelial cells surface at sites of inflammation. HOXA9 is 30 kDa, but methylation of HOXA9 is about 35-40 kDa. (PMID: 10082572)

## Notable Publications

Author	Pubmed ID	Journal	Application
Tina Aumer	36089606	Clin Epigenetics	WB
Jinming Zhao	34877491	iScience	WB
Xiao-fei Li	36366735	J Int Med Res	IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

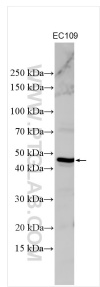
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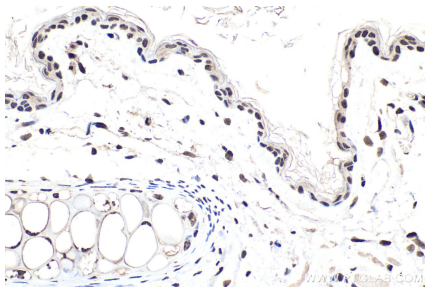
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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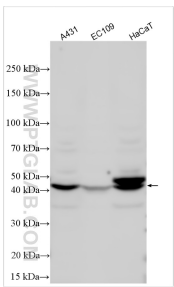
Selected Validation Data



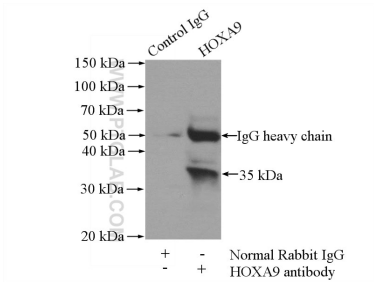
Various lysates were subjected to SDS PAGE followed by western blot with 18501-1-AP (HOXA9 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 18501-1-AP (HOXA9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 18501-1-AP (HOXA9 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-HOXA9 (IP:18501-1-AP, 3ug; Detection:18501-1-AP 1:300) with mouse appendix tissue lysate 4000ug.