## For Research Use Only

# HOXA9 Polyclonal antibody

Catalog Number: 18501-1-AP

Featured Product

7 Publications

Full Name:

30 kDa

40 kDa

homeobox A9

Calculated MW:

Observed MW:



## **Basic Information**

Catalog Number: GenBank Accession Number: 18501-1-AP BC010023

ze: GenelD (NCBI):

150ul , Concentration: 500 µg/ml by 3205

Nanodrop;

Source: Rabbit Isotype: IgG

Immunogen Catalog Number:

AG13350

**Purification Method:** 

Antigen affinity purification

Recommended Dilutions: WB 1:500-1:1000

IP 0.5-4.0 ug for IP and 1:200-1:1000

IP 0.5-4.0 ug for

IHC 1:500-1:2000

## **Applications**

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:
chIP, IHC, WB

Species Specificity: human, mouse, rat Cited Species:

human, mouse

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

#### Positive Controls:

WB: EC 109 cells, mouse colon tissue

IP: mouse appendix tissue,
IHC: mouse skin tissue,

## **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 PRMT5and 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 pH 7.3.

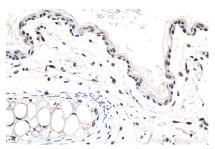
Aliquoting is unnecessary for -20°C storage

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

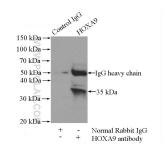
## **Selected Validation Data**



EC109 cells were subjected to SDS PAGE followed by western blot with 18501-1-AP (HOXA9 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded 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).



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