

**Anti-HOXA9 Picoband Antibody**  
**Catalog # ABO11907****Specification**

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**Anti-HOXA9 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P31269</a>
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Homeobox protein Hox-A9(HOXA9) detection. Tested with WB in Human;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-HOXA9 Picoband Antibody - Additional Information**

**Gene ID** 3205

**Other Names**

Homeobox protein Hox-A9, Homeobox protein Hox-1G, HOXA9, HOX1G

**Calculated MW**

30172 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

Nucleus.

**Protein Name**

Homeobox protein Hox-A9

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E.coli-derived human HOXA9 recombinant protein (Position: M1-R204). Human HOXA9 shares 98% amino acid (aa) sequence identity with mouse HOXA9.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the Abd-B homeobox family.

**Anti-HOXA9 Picoband Antibody - Protein Information**

**Name** HOXA9

**Synonyms** HOX1G

**Function**

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Required for induction of SELE/E-selectin and VCAM1 on the endothelial cells surface at sites of inflammation (PubMed: [22269951](http://www.uniprot.org/citations/22269951)). Positively regulates EIF4E- mediated mRNA nuclear export and also increases the translation efficiency of ODC mRNA in the cytoplasm by competing with factors which repress EIF4E activity such as PRH (By similarity).

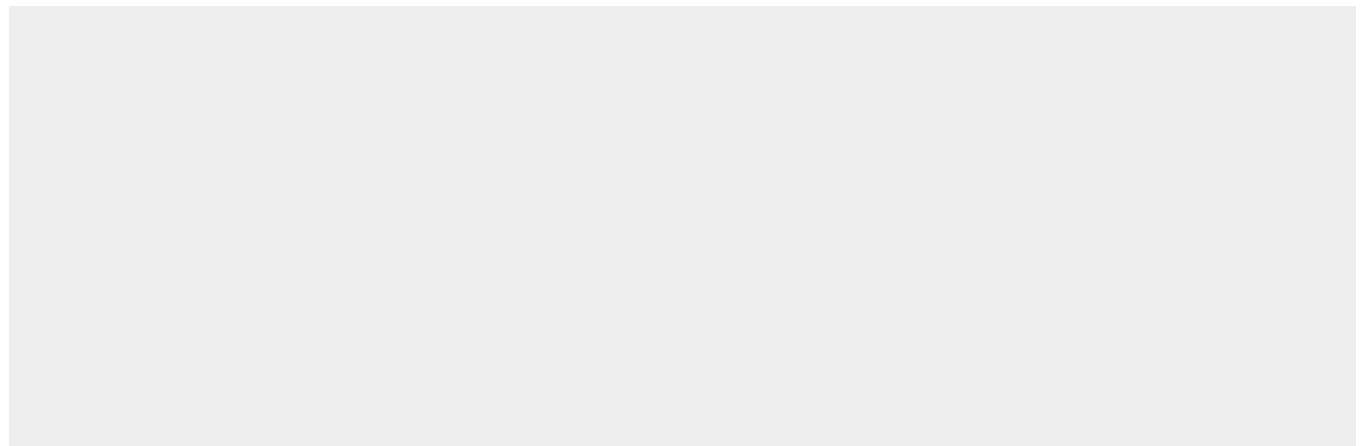
**Cellular Location**

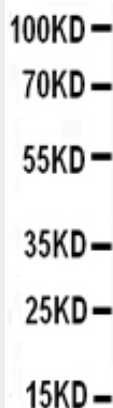
Nucleus. Cytoplasm

**Anti-HOXA9 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

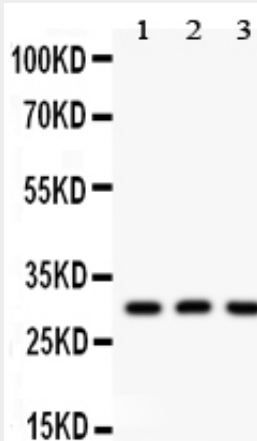
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-HOXA9 Picoband Antibody - Images**



100KD —  
70KD —  
55KD —  
35KD —  
25KD —  
15KD —

Anti- HOXA9 antibody, ABO11907, Western blotting All lanes: Anti HOXA9 (ABO11907) at 0.5ug/ml WB: Recombinant Human HOXA9 Protein 0.5ng Predicted bind size: 38KD Observed bind size: 38KD



100KD —  
70KD —  
55KD —  
35KD —  
25KD —  
15KD —

1 2 3

Anti- HOXA9 antibody, ABO11907, Western blotting All lanes: Anti HOXA9 (ABO11907) at 0.5ug/ml Lane 1: Rat Testis Tissue Lysate at 50ug Lane 2: HEPG2 Whole Cell Lysate at 40ug Lane 3: HEPA Whole Cell Lysate at 40ug Predicted bind size: 30KD Observed bind size: 30KD

#### **Anti-HOXA9 Picoband Antibody - Background**

Homeobox protein Hox-A9 is a protein that in humans is encoded by the HOXA9 gene. It is mapped to 7p15.2. In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. HOXA9 is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. As HOXA9 is part of the homeobox family, involved in setting the body plans of animals, it is likely that HOXA9 would display increased expression in cells with higher differentiation potentials.