

## Rabbit Anti-HOXA7/APC Conjugated antibody

SL11295R-APC

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|--------------------------|--|
| <b>Product Name</b>      | Anti-HOXA7/APC   |
| <b>Chinese Name</b>      | APC 标记的同源盒基因 HOXA7 蛋白抗体  |
| <b>Alias</b>             | ANTP; Homeobox A7; Homeobox protein Hox 1.1; Homeobox protein Hox A7; Homeobox protein Hox-1A; Homeobox protein Hox-A7; HOX1; Hox1A; HOXA7; HXA7_HUMAN.  |
| <b>Research Area</b>     | Cardiovascular Cell biology Neurobiology transcriptional regulatory factor Epigenetics   |
| <b>Immunogen Species</b> | Rabbit   |
| <b>Clonality</b>         | Polyclonal   |
| <b>React Species</b>     | Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep)<br>IF=1:100-500  |
| <b>Applications</b>      | not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight</b>  | 25kDa  |
| <b>Form</b>              | Lyophilized or Liquid  |
| <b>Concentration</b>     | 1mg/ml   |
| <b>immunogen</b>         | KLH conjugated synthetic peptide derived from human HOXA7  |
| <b>Lsotype</b>           | IgG  |
| <b>Purification</b>      | affinity purified by Protein A   |
| <b>Storage Buffer</b>    | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.<br>Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                   |
| <b>Storage</b>           |  |
| <b>Product Detail</b>    | <b>background:</b><br>HOX genes play a fundamental role in the development of the vertebrate central nervous system, heart, axial skeleton, limbs, gut, urogenital tract and external genitalia. The homeobox gene Hoxa-1 is transcriptionally regulated by retinoic acid (RA) and encodes a transcription factor, which has been shown to play important roles in cell differentiation and embryogenesis. |

Hoxa-1 is also expressed in cancers, such as mammary tumors, though it is not expressed in normal gland or in precancerous mammary tissues. At embryonic stages, Hoxa-2 is expressed in the mesenchyme and epithelial cells of palate, however its expression is restricted to the tips of the growing palatal shelves. Hoxa-2 protein is predominantly expressed in the nuclei of cells in the ventral mantle region of the developing embryo. In the developing and adult mouse spinal cord, Hoxa-2 protein may contribute to dorsal-ventral patterning and/or to the specification of neuronal phenotype. Hoxa-7 functions as a potent transcriptional repressor and its action as such requires several domains, including both activator and repressor regions. Hoxa-7 is expressed in the fetal liver, lung, skeletal muscle, kidney, pancreas and placenta.

**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.

**Subcellular Location:**

Nucleus.

**DISEASE:**

Belongs to the Antp homeobox family.  
Contains 1 homeobox DNA-binding domain.

**Database links:**

[Entrez Gene: 3204](#) Human

[Entrez Gene: 500126](#) Rat

[Omim: 142950](#) Human

[SwissProt: P31268](#) Human

[SwissProt: P09634](#) Rat

[Unigene: 610216](#) Human

[Unigene: 660918](#) Human

[Unigene: 203714](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



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