



## Rabbit Anti-HOXA7 antibody

SL11295R

<b>Product Name:</b>	HOXA7
<b>Chinese Name:</b>	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>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	25kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human HOXA7:112-230/230
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**SWISS:**

P31268

**Gene ID:**

3204

**Database links:**

[Entrez Gene: 3204](#)Human

[Entrez Gene: 500126](#)Rat

[Omim: 142950](#)Human

[SwissProt: P31268](#)Human

[SwissProt: P09634](#)Rat

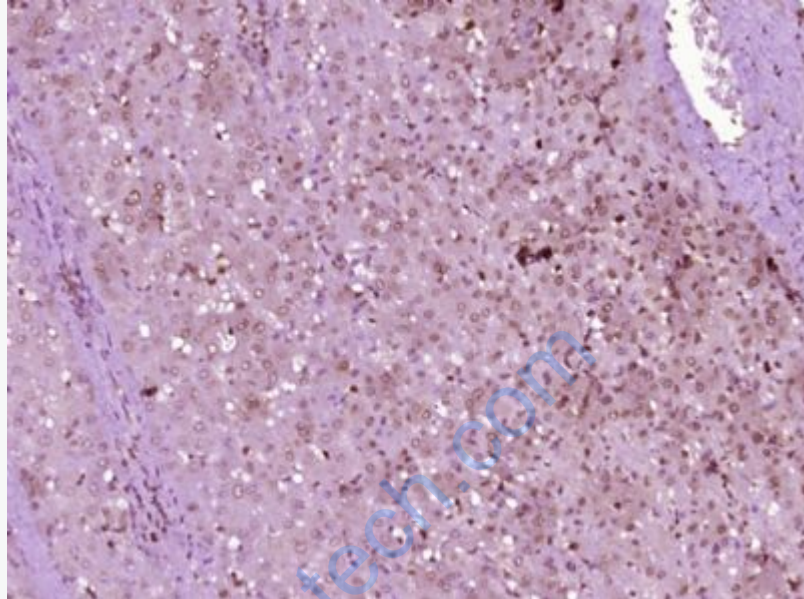
[Unigene: 610216](#)Human

[Unigene: 660918](#)Human

[Unigene: 203714](#)Rat

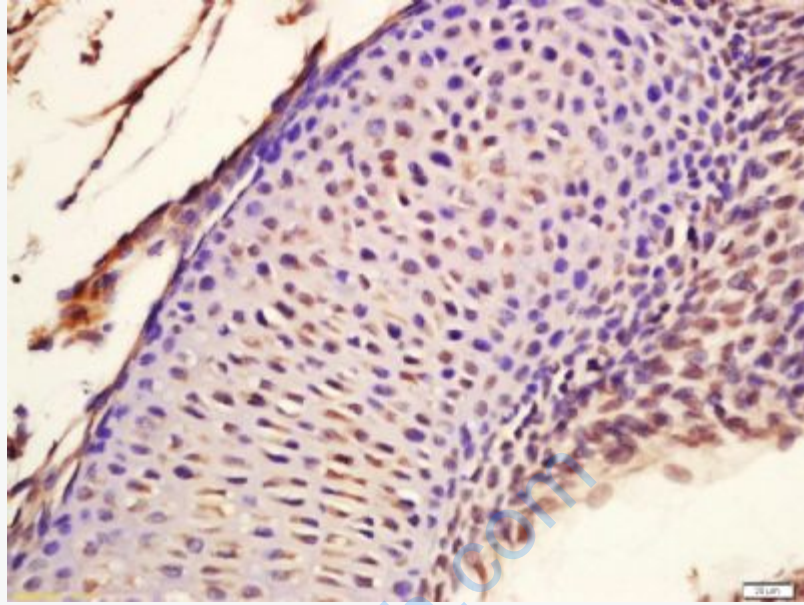
**Important Note:**

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



**Picture:**

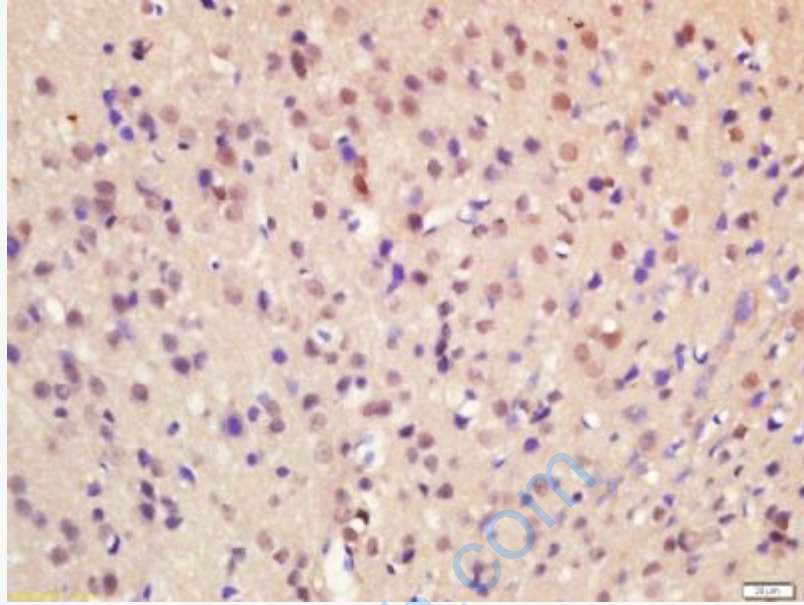
Paraformaldehyde-fixed, paraffin embedded (Human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HOXA7) Polyclonal Antibody, Unconjugated (SL11295R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-HOXA7 Polyclonal Antibody, Unconjugated(SL11295R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-HOXA7 Polyclonal Antibody, Unconjugated(SL11295R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining