

For Research Use Only

# HOXA7 Monoclonal antibody

Catalog Number: 67112-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 67112-1-Ig	<b>GenBank Accession Number:</b> BC148692	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 2500 µg/ml	<b>GeneID (NCBI):</b> 3204	<b>CloneNo.:</b> 2A7H6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P31268	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> homeobox A7	
<b>Immunogen Catalog Number:</b> AG19025	<b>Calculated MW:</b> 230 aa, 25 kDa	
	<b>Observed MW:</b> 20 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, WB, ELISA	<b>Positive Controls:</b> WB : THP-1 cells, HepG2 cells, SMMC-7721 cells, HT-29 cells, HL-60 cells, K-562 cells IF : HepG2 cells,
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, mouse	

## Background Information

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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jun-Pu Zha	32650806	J Orthop Surg Res	WB
Jun Li	34978042	Reprod Sci	WB
Anqi Feng	37248653	Cancer Sci	WB, IHC, IF

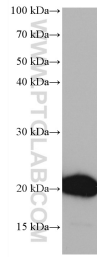
## Storage

**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

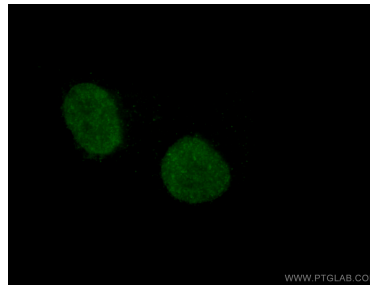
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## Selected Validation Data



THP-1 cells were subjected to SDS PAGE followed by western blot with 67112-1-Ig (HOXA7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 67112-1-Ig (HOXA7 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).