

For Research Use Only

HOXA7 Monoclonal antibody

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



Basic Information

Catalog Number: 67112-1-Ig	GenBank Accession Number: BC148692	Purification Method: Protein G purification
Size: 150ul , Concentration: 2500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3204	CloneNo.: 2A7H6
Source: Mouse	Full Name: homeobox A7	Recommended Dilutions: WB 1:1000-1:6000 IF 1:50-1:500
Isotype: IgG1	Calculated MW: 230 aa, 25 kDa	
Immunogen Catalog Number: AG19025	Observed MW: 20 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : THP-1 cells, HepG2 cells, SMMC-7721 cells, HT-29 cells, HL-60 cells, K-562 cells
Cited Applications: IF, IHC, WB	IF : HepG2 cells,
Species Specificity: Human	
Cited Species: 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

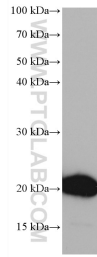
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

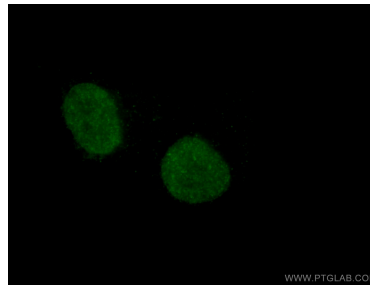
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Selected Validation Data



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).