

For Research Use Only

HOXA7 Polyclonal antibody

Catalog Number:22931-1-AP



Basic Information

Catalog Number: 22931-1-AP	GenBank Accession Number: BC148692	Purification Method: Antigen Affinity purified
Size: 350 ug/ml	GeneID (NCBI): 3204	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: P31268	
Isotype: IgG	Full Name: homeobox A7	
Immunogen Catalog Number: AG18927	Calculated MW: 230 aa, 25 kDa	
	Observed MW: 22 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293T cells, COLO 205 cells, THP-1 cells
Species Specificity: human	

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.

Storage

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

For technical support and original validation data for this product please contact:

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 22931-1-AP (HOXA7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.