For Research Use Only

HOXA7 Monoclonal antibody

Catalog Number:67112-1-Ig Featured Product 5 Publications

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Basic Information

Catalog Number:
67112-1-Ig

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG19025

GenBank Accession Number:
BC148692

GeneID (NCBI):
3204

UNIPROT ID:
P31268

Full Name:
homeobox A7

Calculated MW:
230 aa, 25 kDa

Observed MW:
20 kDa

Purification Method:
Protein G purification

CloneNo.:
2A7H6

Recommended Dilutions:
WB: 1:2000-1:10000
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : A431 cells, HCT 116 cells, HepG2 cells, HL-60 cells, HT-29 cells, K-562 cells, SMMC-7721 cells, THP-1 cells, ACHN cells, SiHa cells, NCI-H1299 cells, HEK-293 cells, RKO cells

IF/ICC : HepG2 cells,

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
George M. Gibbons	42201810	Cell Rep	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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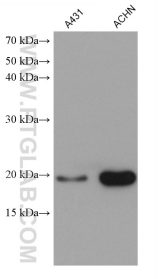
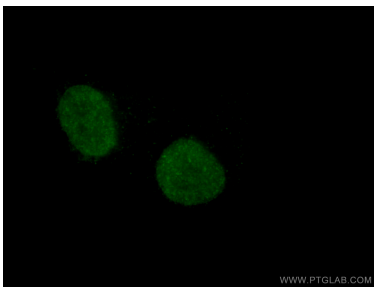
Selected Validation Data



A431 cells were subjected to SDS PAGE followed by western blot with 67112-1-Ig (HOXA7 antibody) at dilution of 1:5000 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).