

For Research Use Only

CoraLite® Plus 488-conjugated HOXA7 Monoclonal antibody



Catalog Number:CL488-67112

Basic Information

Catalog Number: CL488-67112	GenBank Accession Number: BC148692	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3204	CloneNo.: 2A7H6
Source: Mouse	Full Name: homeobox A7	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Calculated MW: 230 aa, 25 kDa	Excitation/Emission maxima wavelengths: 488 nm / 515 nm
Immunogen Catalog Number: AG19025	Observed MW: 20 kDa	

Applications

Tested Applications: IF	Positive Controls: IF : HepG2 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

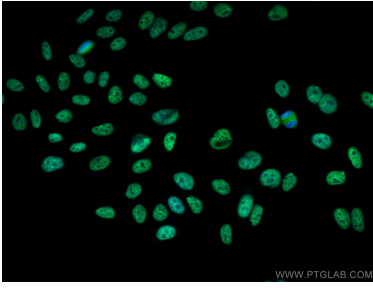
Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 HOXA7 antibody (CL488-67112, Clone: 2A7H6) at dilution of 1:200.



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