

For Research Use Only

HOXC4 Polyclonal antibody

Catalog Number: 14321-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number: 14321-1-AP	GenBank Accession Number: BC050442	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 320 µg/ml by Nanodrop and 320 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3221	Recommended Dilutions: WB 1:5000-1:50000 IF 1:50-1:500
Source: Rabbit	Full Name: homeobox C4	
Isotype: IgG	Calculated MW: 30 kDa	
Immunogen Catalog Number: AG5563	Observed MW: 39 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : Jurkat cells, PC-12 cells, U-251 cells
Cited Applications: WB	IF : HeLa cells,
Species Specificity: human, rat	
Cited Species: human	

Background Information

The class I homeobox (HOX) family of homeodomain-containing transcription factors has 39 members in mammals. These genes are distributed throughout the genome in four clusters: HOXA (7p15), HOXB (17q21), HOXC (12q13), and HOXD (2q31). HOX genes are known to act as transcription factors, playing an essential regulatory role in the temporal and spatial development of the embryo. HOXC family members are not expressed in normal prostate tissue but increased expression of HOXC genes is commonly detected in prostate cancers. HOXC4 is expressed in GC B cells and HoxC4 expression is specifically up-regulated by the same stimuli that induce AID expression (LPS, CD154 and IL-4). The calculated molecular weight of HOXC4 is 30 kDa. Sometimes higher molecular weight around 39 kDa can also be observed, which may be a modified variant of HOXC4 (PMID: 23178148, 32012197, 35400027).

Notable Publications

Author	Pubmed ID	Journal	Application
Chao Liu	27689400	Oncotarget	WB

Storage

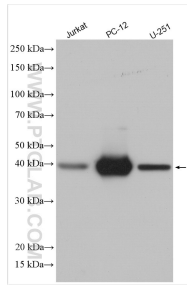
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

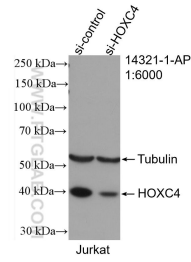
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

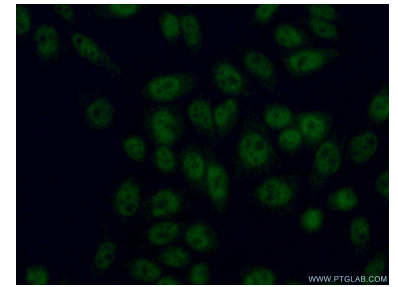
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14321-1-AP (HOXC4 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



WB result of HOXC4 antibody (14321-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HOXC4 transfected Jurkat cells.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 14321-1-AP (HOXC4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).