

For Research Use Only

# HOXC4 Polyclonal antibody

Catalog Number: 14321-1-AP

Featured Product

1 Publications



## Basic Information

### Catalog Number:

14321-1-AP

### Size:

150ul, Concentration: 320 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5563

### GenBank Accession Number:

BC050442

### GeneID (NCBI):

3221

### UNIPROT ID:

P09017

### Full Name:

homeobox C4

### Calculated MW:

30 kDa

### Observed MW:

39 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

## Applications

### Tested Applications:

WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, rat

### Cited Species:

human

### Positive Controls:

WB : Jurkat cells, PC-12 cells, U-251 cells

## 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

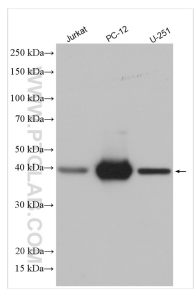
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

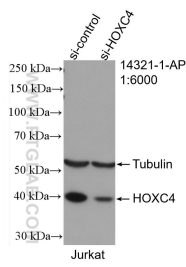
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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.