

**HOXC4 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14368b****Specification**

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**HOXC4 Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P09017</a>
Other Accession	<a href="#">Q08624</a> , <a href="#">NP_055435.2</a> , <a href="#">NP_705897.1</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	197-225

**HOXC4 Antibody (C-term) - Additional Information****Gene ID** 3221**Other Names**

Homeobox protein Hox-C4, Homeobox protein CP19, Homeobox protein Hox-3E, HOXC4, HOX3E

**Target/Specificity**

This HOXC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-225 amino acids from the C-terminal region of human HOXC4.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HOXC4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HOXC4 Antibody (C-term) - Protein Information****Name** HOXC4

**Synonyms** HOX3E

**Function** Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.

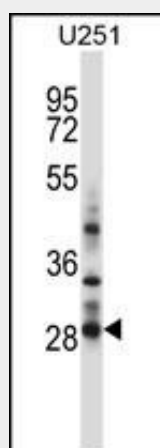
**Cellular Location**

Nucleus.

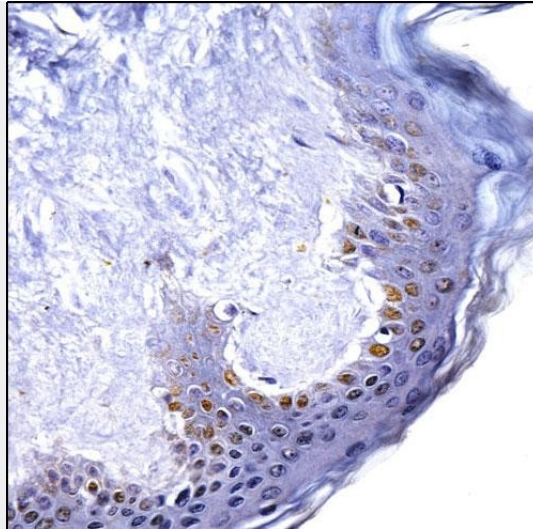
**HOXC4 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HOXC4 Antibody (C-term) - Images**

HOXC4 Antibody (C-term) (Cat. #AP14368b) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the HOXC4 antibody detected the HOXC4 protein (arrow).



HOXC4 Antibody (C-term) (AP14368b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of HOXC4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **HOXC4 Antibody (C-term) - Background**

This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene, HOXC4, is one of several homeobox HOXC genes located in a cluster on chromosome 12. Three genes, HOXC5, HOXC4 and HOXC6, share a 5' non-coding exon. Transcripts may include the shared exon spliced to the gene-specific exons, or they may include only the gene-specific exons. Two alternatively spliced variants that encode the same protein have been described for HOXC4. Transcript variant one includes the shared exon, and transcript variant two includes only gene-specific exons.

#### **HOXC4 Antibody (C-term) - References**

- Park, S.R., et al. Nat. Immunol. 10(5):540-550(2009)
- Lamesch, P., et al. Genomics 89(3):307-315(2007)
- Wissmuller, S., et al. Nucleic Acids Res. 34(6):1735-1744(2006)
- Gong, L.G., et al. Zhonghua Yi Xue Yi Chuan Xue Za Zhi 22(5):497-501(2005)
- Kim, E.C., et al. J. Biol. Chem. 279(40):42258-42269(2004)