

## Product datasheet for **CF809474**

### HOXD4 Mouse Monoclonal Antibody [Clone ID: OT11E9]

#### Product data:

|                        |  |
|------------------------|--|
| Product Type:          | Primary Antibodies   |
| Clone Name:            | OT11E9   |
| Applications:          | IHC, WB  |
| Recommended Dilution:  | WB 1:2000, IHC 1:150   |
| Reactivity:            | Human, Mouse, Rat  |
| Host:                  | Mouse  |
| Isotype:               | IgG2a  |
| Clonality:             | Monoclonal   |
| Immunogen:             | Full length human recombinant protein of human HOXD4 (NP_055436) produced in E.coli.   |
| Formulation:           | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:          | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:           | Unconjugated   |
| Storage:               | Store at -20°C as received.  |
| Stability:             | Stable for 12 months from date of receipt.   |
| Gene Name:             | homeobox D4  |
| Database Link:         | <a href="#">NP_055436</a><br><a href="#">Entrez Gene 15436 Mouse</a> <a href="#">Entrez Gene 288153 Rat</a> <a href="#">Entrez Gene 3233 Human</a><br><a href="#">P09016</a>   |



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**Background:**

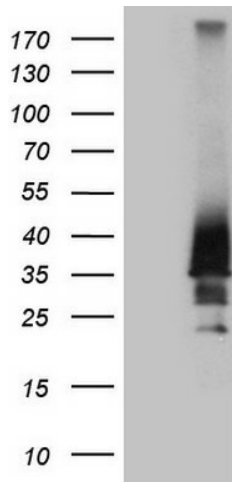
This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5' end of this cluster have been associated with severe limb and genital abnormalities. The protein encoded by this gene may play a role in determining positional values in developing limb buds. Alternatively spliced variants have been described but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

**Synonyms:**

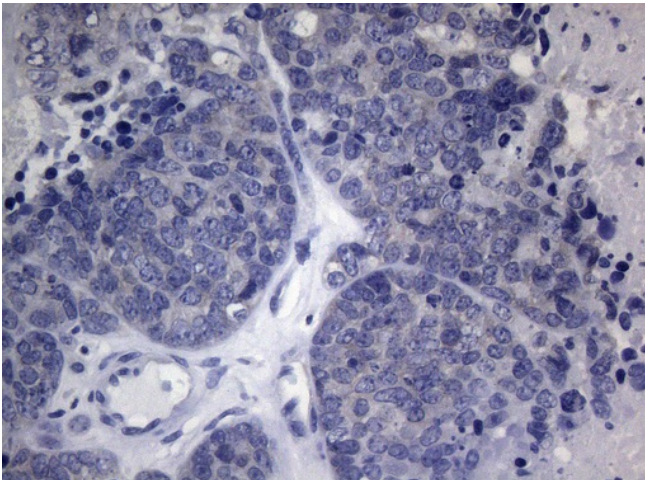
HHO.C13; Hox-4.2; HOX-5.1; HOX4; HOX4B

**Protein Families:**

Transcription Factors

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HOXD4 (Cat# [RC204747], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HOXD4 (Cat# [TA809474])(1:2000). Positive lysates [LY415173] (100ug) and [LC415173] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-HOXD4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809474]) (1:150)