


### Anti-HOXD13 antibody ab19866

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#### Overview

<b>Product name</b>	Anti-HOXD13 antibody
<b>Description</b>	Rabbit polyclonal to HOXD13
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-FoFr, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Chicken, Xenopus laevis 
<b>Immunogen</b>	Synthetic peptide corresponding to Human HOXD13 aa 200-300 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab22466</a> )
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS  Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab19866 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 68 kDa (predicted molecular weight: 36 kDa).
IHC-FoFr		1/100 - 1/300.
ICC/IF		Use a concentration of 5 µg/ml.

## Target

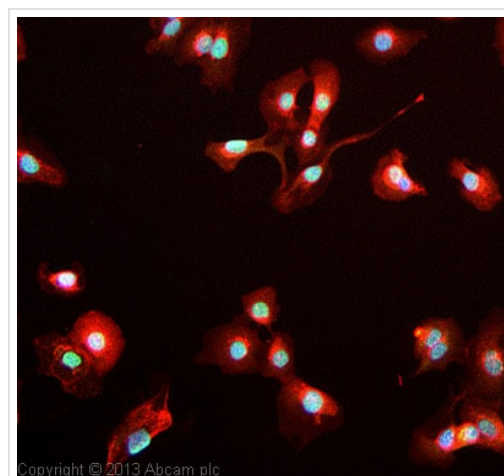
### Relevance

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 in a cluster on chromosome 2. Deletions that remove the entire HOXD gene cluster or the 5' end of this cluster have been associated with severe limb and genital abnormalities. Mutations in this particular gene cause synpolydactyly.

### Cellular localization

Nuclear

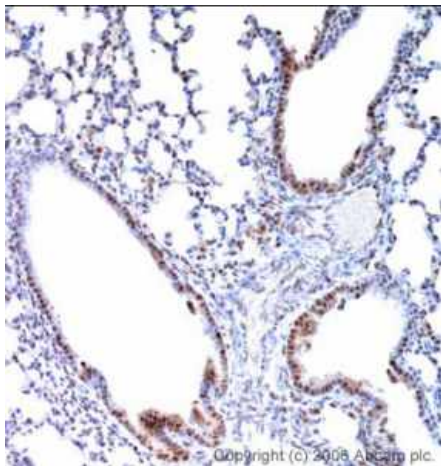
## Images



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Immunocytochemistry/ Immunofluorescence - Anti-HOXD13 antibody (ab19866)

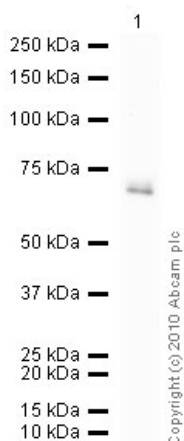
ICC/IF image of ab19866 stained DU145 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab19866 at 5 ug/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-HOXD13 antibody (ab19866)

This image is courtesy of Shunyou Wang, Ph.D.

ab19866 was tested in IHC of formalin fixed sections from mouse (over two weeks of age) lung. Antigen retrieval was in citrate buffer and blocking was in 1% BSA. The primary antibody was incubated at a dilution of 1/100 overnight at 4 degrees celsius. The secondary antibody was a biotin conjugated anti-rabbit IgG.



Western blot - Anti-HOXD13 antibody (ab19866)

Anti-HOXD13 antibody (ab19866) at 1 µg/ml + HOXD13 (Human) Recombinant Protein at 0.2 µg

#### Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

**Predicted band size:** 36 kDa

**Observed band size:** 68 kDa

ab19866 was tested on a recombinant GST tagged HOXD13 protein (Human) predicted to run at 65 kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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