

### Biotin Anti-PTHLH antibody ab82799

#### 1 References

#### Overview

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<b>Product name</b>	Biotin Anti-PTHLH antibody
<b>Description</b>	Biotin Rabbit polyclonal to PTHLH
<b>Host species</b>	Rabbit
<b>Conjugation</b>	Biotin
<b>Tested applications</b>	<b>Suitable for:</b> Sandwich ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human PTHLH. Highly pure (>98%).
<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

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<b>Form</b>	Lyophilized:Reconstitute in sterile PBS containing 0.1% BSA to give a concentration of 0.1 - 1.0 mg/ml.
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab82799 was purified by affinity chromatography and then biotinylated.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

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The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab82799 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
Sandwich ELISA		Use at an assay dependent concentration. Can be used as detection antibody when paired with recommended antibody.
WB		Use at an assay dependent concentration.

## Target

Function	Neuroendocrine peptide which is a critical regulator of cellular and organ growth, development, migration, differentiation and survival and of epithelial calcium ion transport. Regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth. Required for skeletal homeostasis. Promotes mammary mesenchyme differentiation and bud outgrowth by modulating mesenchymal cell responsiveness to BMPs. Upregulates BMPR1A expression in the mammary mesenchyme and this increases the sensitivity of these cells to BMPs and allows them to respond to BMP4 in a paracrine and/or autocrine fashion. BMP4 signaling in the mesenchyme, in turn, triggers epithelial outgrowth and augments MSX2 expression, which causes the mammary mesenchyme to inhibit hair follicle formation within the nipple sheath (By similarity). Promotes colon cancer cell migration and invasion in an integrin alpha-6/beta-1-dependent manner through activation of Rac1. Osteostatin is a potent inhibitor of osteoclastic bone resorption.
Tissue specificity	Ubiquitous. Also expressed in the mammary gland.
Involvement in disease	Brachydactyly E2
Sequence similarities	Belongs to the parathyroid hormone family.
Post-translational modifications	There are 3 principal secretory forms, called PTHrP[1-36], PTHrP[38-94], and osteostatin (PTHrP[107-139]) arising from endoproteolytic cleavage of the initial translation product. Each of these secretory forms is believed to have one or more of its own receptors that mediates the normal paracrine, autocrine and endocrine actions.
Cellular localization	Cytoplasm. Nucleus. Secreted.

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

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