

**PTHLH Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7336a****Specification****PTHLH Antibody (N-term) Blocking Peptide -  
Product Information**Primary Accession [P12272](#)**PTHLH Antibody (N-term) Blocking Peptide -  
Additional Information****Gene ID** 5744**Other Names**

Parathyroid hormone-related protein,  
PTH-rP, PTHrP, Parathyroid hormone-like  
protein, PLP, PTHrP[1-36], PTHrP[38-94],  
Osteostatin, PTHrP[107-139], PTHLH, PTHRP

**Target/Specificity**

The synthetic peptide sequence used to  
generate the antibody <a  
href=/products/AP7336a>AP7336a</a>  
was selected from the N-term region of  
human PTHLH. A 10 to 100 fold molar  
excess to antibody is recommended.  
Precise conditions should be optimized for a  
particular assay.

**Format**

Peptides are lyophilized in a solid powder  
format. Peptides can be reconstituted in  
solution using the appropriate buffer as  
needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C.

**Precautions**

This product is for research use only. Not  
for use in diagnostic or therapeutic  
procedures.

**PTHLH Antibody (N-term) Blocking Peptide -  
Protein Information****Name** PTHLH**PTHLH Antibody (N-term) Blocking  
Peptide - Background**

PTHLH is a member of the parathyroid  
hormone family. This hormone regulates  
endochondral bone development and  
epithelial-mesenchymal interactions during the  
formation of the mammary glands and teeth.  
This hormone is involved in lactation possibly  
by regulating the mobilization and transfer of  
calcium to the milk. The receptor of this  
hormone, PTHR1, is responsible for most cases  
of humoral hypercalcemia of malignancy.

**PTHLH Antibody (N-term) Blocking  
Peptide - References**

Trynka,G., Zhernakova,A. Gut 58 (8),  
1078-1083 (2009) Nakao,A., Kajiya,H. J. Dent.  
Res. 88 (6), 551-556 (2009) Iwamura,M.,  
Hellman,J. Urology 48 (2), 317-325  
(1996) Fenton,A.J., Kemp,B.E. Endocrinology  
129 (6), 3424-3426 (1991)

**Synonyms PTHRP****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 BMPRII 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.

**Cellular Location**

Cytoplasm. Nucleus. Secreted.

**Tissue Location**

Ubiquitous. Also expressed in the mammary gland.

**PTHLH Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)