

**PTHLH Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7336c****Specification**

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**PTHLH Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P12272](#)**PTHLH Antibody (Center) 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 [AP7336c](/products/AP7336c) was selected from the Center 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 (Center) Blocking Peptide - Protein Information****Name** PTHLH**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. Up-regulates BMPRI1A 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.

**PTHrH Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PTHrH Antibody (Center) Blocking Peptide - Images****PTHrH Antibody (Center) Blocking Peptide - Background**

PTHrH 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.

**PTHrH Antibody (Center) 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)