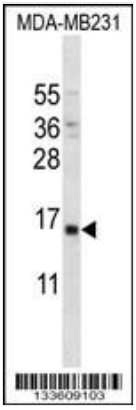
# PTH Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PTH, Polyclonal Antibody |
| **Full Product Name** | PTH, ID (PTH, Parathyroid hormone, Parathormone, Parathyrin) (Biotin) |
| **Product Gene Name** | anti-PTH antibody |
| **Product Synonym Names** | PTH; Parathyroid hormone; Parathormone; Parathyrin |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 12,861 Da |
| **Chromosome Location** | Chromosome: 11; NC_000011.9 (13513601..13517567, complement). Location: 11p15.3-p15.1 |
| **OMIM** | 146200 |
| **3D Structure** | ModBase 3D Structure for P01270 |
| **Immunogen** | PTH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-88 amino acids from the Central region of human PTH. |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-PTH antibody** | Antibodies; Hormones; Steroids |
| **Applications Tested/Suitable for anti-PTH antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-PTH antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-PTH antibody** | The protein encoded by this gene is a hormone secreted by parathyroid cells. This hormone elevates blood Ca2+ level by dissolving the salts in bone and preventing their renal excretion. Defects in this gene are a cause of familial isolated hypoparathyroidism (FIH). |
| **Product References and Citations for anti-PTH antibody** | Giroux, S., et al. Bone 47(5):975-981(2010). Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Xu, M., et al. Bone 47(2):341-352(2010). Gardham, C., et al. Clin J Am Soc Nephrol 5(7):1261-1267(2010). Tawfeek, H., et al. PLoS ONE 5 (8), E12290 (2010). |
| **Other Notes** | Small volumes of anti-PTH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

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| **Searchable Terms for PTH purchase** | MBS6338768 is an antibody targeting PTH. Also known as PTH, ID (PTH, Parathyroid hormone, Parathormone, Parathyrin) (Biotin). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-PTH antibody**
PTH Antibody (Center) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the PTH antibody detected the PTH protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTH. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4506267 |
| **NCBI GeneID** | 5741 |
| **NCBI Accession #** | NP_000306.1 |
| **UniProt Primary Accession #** | P01270 |
| **UniProt Secondary Accession #** | Q4VB48; Q9UD38 |
| **UniProt Related Accession #** | P01270 |
| **GenBank Nucleotide #** | NM_000315.2 |
| **NCBI Official Full Name** | parathyroid hormone preproprotein |
| **NCBI Official Synonym Full Names** | parathyroid hormone |
| **NCBI Official Symbol** | PTH |
| **NCBI Official Synonym Symbols** | PTH1 |
| **UniProt Protein Name** | Parathyroid hormone |
| **UniProt Synonym Protein Names** | Parathormone; Parathyrin |
| **Protein Family** | Parathyroid hormone |
| **UniProt Gene Name** | PTH |
| **UniProt Synonym Gene Names** | PTH |
| **UniProt Entry Name** | PTHY_HUMAN |
| **NCBI Protein Information** | parathyroid hormone; parathyrin; prepro-PTH; parathormone; parathyroid hormone 1; preproparathyroid hormone |

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| **UniProt Comments for PTH** | PTH: PTH elevates calcium level by dissolving the salts in bone and preventing their renal excretion. Stimulates [1-14C]-2- deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblastic cells. Defects in PTH are a cause of familial isolated hypoparathyroidism (FIH); also called autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. FIH exist both as autosomal dominant and recessive forms of hypoparathyroidism. Belongs to the parathyroid hormone family.<br><br>Protein type: Hormone; Secreted, signal peptide; Apoptosis; Secreted<br><br>Chromosomal Location of Human Ortholog: 11p15.3-p15.1<br><br>Cellular Component: extracellular space; extracellular region<br><br>Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; type 1 parathyroid hormone receptor binding; parathyroid hormone receptor binding; peptide hormone receptor binding; hormone activity<br><br>Biological Process: response to drug; transcription from RNA polymerase II promoter; positive regulation of signal transduction; induction of apoptosis by hormones; positive regulation of glycogen biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; positive regulation of bone mineralization; G-protein signaling, adenylate cyclase activating pathway; Rho protein signal transduction; cellular calcium ion homeostasis; G-protein coupled receptor protein signaling pathway; positive regulation of glucose import; response to cadmium ion; response to vitamin D; response to ethanol; cAMP metabolic process; cell-cell signaling; regulation of gene expression; response to lead ion; positive regulation of cAMP biosynthetic process; positive regulation of transcription from RNA polymerase II promoter; skeletal development; bone resorption<br><br>Disease: Hypoparathyroidism, Familial Isolated |
| **Research Articles on PTH** | **1.** Report serum PTH levels during fracture healing in patients with normal/low bone mineral density. |
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