Parathyroid Hormone, Aa1-34 (PTH) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Parathyroid Hormone, aa1-34 (PTH), Polyclonal Antibody
Full Product Name	Parathyroid Hormone, aa1-34 (PTH, Parathormone, Parathyrin)
Product Gene Name	anti-PTH antibody
Product Synonym Names	Anti -Parathyroid Hormone, aa1-34 (PTH, Parathormone, Parathyrin)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a lyophilized powder. Reconstitute with 20ul sterile ddH2O.
Purity/Purification	Serum Serum
Specificity	Recognizes human PTH (aa15-25; 1-34; 1-38; 1-84; 7-84). Does not crossreact with synthetic human PTH (aa1-10) or (aa44-68).
Preparation and Storage	Lyophilized powder may be stored at -20 degree C. Stable for 12 months at -20 degree C. Reconstitute with sterile ddH2O. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Reconstituted product is stable for 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
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	Synthetic peptide corresponding to aa1-34, SVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHNF of human PTH, conjugated to bTG.
Product Categories/Family for anti-PTH antibody	Antibodies; Abs to Hormones; Steroids
Applications Tested/Suitable for anti-PTH antibody	ELISA (EL/EIA)
Application Notes for anti-PTH antibody	Suitable for use in ELISA. Dilution: ELISA: 1:3000

Related Product Information for anti-PTH antibody	Polypeptide hormones secreted by the parathyroid glands, which promote release of calcium from bone to extracellular fluid by activating osteoblasts and inhibiting osteoclasts, indirectly promote increased intestinal absorption of calcium and promote renal tubular reabsorption of calcium and increased renal excretion of phosphates. It is a major regulator of bone metabolism. Secretion of parathyroid hormone increases when the level of calcium in the extracellular fluid is low. Its action is opposed by calcitonin. Parathyroid hormone (PTH), or parathormone, is secreted by the parathyroid glands as a polypeptide containing 84 amino acids. It acts to increase the concentration of calcium (Ca2+) in the blood, whereas calcitonin (a hormone produced by the parafollicular cells (C cells) of the thyroid gland) acts to decrease calcium concentration. PTH acts to increase the concentration of calcium in the blood by acting upon parathyroid hormone receptor in three parts of the body. PTH half-life is approximately 4 minutes. PTH enhances the release of calcium from the large reservoir contained in the bones. Bone resorption is the normal destruction of bone by osteoclasts, which are indirectly stimulated by PTH. Stimulation is indirect since osteoclasts do not have a receptor for PTH; rather, PTH binds to osteoblasts, the cells responsible for creating bone. Binding stimulates osteoblasts to increase their expression of RANKL, which can bind to osteoclast precursors containing RANK, a receptor for RANKL. The binding of RANKL to RANK stimulates these precursors to fuse, forming new osteoclasts which ultimately enhances the resorption of bone.
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.
Searchable Terms for PTH purchase	MBS647136 is an antibody targeting PTH. Also known as Parathyroid Hormone, aa1-34 (PTH, Parathormone, Parathyrin). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

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
NCBI Summary for PTH	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). [provided by RefSeq, Jul 2008]

UniProt Comments for PTH	Function: 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. Ref.13 Subunit structure: Interacts with PTH1R (via N-terminal extracellular domain). Ref.19 Subcellular location: Secreted. Involvement in disease: Hypoparathyroidism, familial isolated (FIH) [MIM:146200]: A disorder characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Clinical features include seizures, tetany and cramps.Note: The disease is caused by mutations affecting the gene represented in this entry. Ref.20 Ref.21 Ref.22 Sequence similarities: Belongs to the parathyroid hormone family.
Research Articles on PTH	**1.** Vitamin D deficient Saudi children and adults with normal levels of 1,25-dihydroxyvitamin D also had normal circulating calcium and PTH.
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