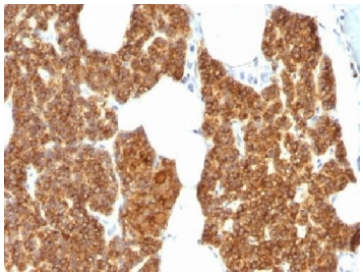
PTH Antibody Rabbit Polyclonal / Parathyroid Hormone Antibody / N-Terminal (V3375)

Catalog No.	Formulation	Size
V3375-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3375-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3375SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Protein A affinity chromatography
UniProt	P01270
Localization	Cytoplasmic and secreted
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This PTH antibody is available for research use only.



PTH Antibody Rabbit Polyclonal immunohistochemistry of human parathyroid gland. FFPE human parathyroid gland stained using PTH Antibody Rabbit Polyclonal. Strong cytoplasmic brown chromogenic staining is observed in parathyroid endocrine chief cells, consistent with the expected intracellular localization of Parathyroid hormone (PTH) in hormone-producing cells of the parathyroid gland. Immunohistochemistry staining was performed following heat-induced epitope retrieval using steam treatment in 10mM citrate buffer (pH 6.0) for 10-20 minutes.

Description

Parathyroid hormone (PTH), encoded by the PTH gene, is a peptide hormone secreted by endocrine chief cells of the

parathyroid glands and functions as a key regulator of calcium and phosphate homeostasis. Through coordinated actions on bone, kidney, and vitamin D metabolism, PTH maintains systemic mineral balance and supports skeletal physiology. PTH Antibody Rabbit Polyclonal enables detection of Parathyroid hormone expression in endocrine tissues and supports research investigating hormone production and parathyroid gland biology.

PTH is synthesized in parathyroid chief cells as preproparathyroid hormone and subsequently processed intracellularly to generate the mature peptide hormone before secretion into circulation. In tissue sections, Parathyroid hormone is typically localized within the cytoplasm of endocrine cells responsible for hormone synthesis and storage. Detection of this cytoplasmic staining pattern allows visualization of hormone-producing cells within the parathyroid gland and assists researchers studying endocrine cell populations and hormone production in normal physiology.

PTH plays a central role in endocrine regulation of calcium metabolism by stimulating bone resorption, increasing renal calcium reabsorption, and promoting activation of vitamin D in the kidney. Through these coordinated mechanisms, Parathyroid hormone maintains circulating calcium levels within a narrow physiological range. Dysregulation of PTH secretion can contribute to metabolic bone disease and endocrine disorders, making detection of Parathyroid hormone an important component of endocrine and metabolic research.

PTH antibodies are widely used in studies of parathyroid gland biology and endocrine pathology. Immunodetection of Parathyroid hormone supports identification of hormone-producing parathyroid tissue and contributes to research investigating parathyroid adenoma, parathyroid hyperplasia, and parathyroid carcinoma. Because parathyroid tissue can sometimes resemble surrounding thyroid structures morphologically, detection using a PTH antibody provides a useful molecular marker for identifying parathyroid-derived endocrine cells.

This rabbit polyclonal antibody recognizes Parathyroid hormone and supports research investigating hormone expression, endocrine signaling pathways, and parathyroid gland biology. A PTH antibody can be used to detect Parathyroid hormone in endocrine tissues and related experimental models studying calcium regulation and hormone production.

Application Notes

Optimal dilution of the PTH Antibody Rabbit Polyclonal should be determined by the researcher.

Immunogen

A synthetic peptide from the N-terminal region of human Parathyroid hormone was used as the immunogen for the PTH antibody.

Storage

Store the PTH antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Parathyroid hormone antibody, PTH antibody, PTH protein antibody, Parathyroid hormone protein antibody

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