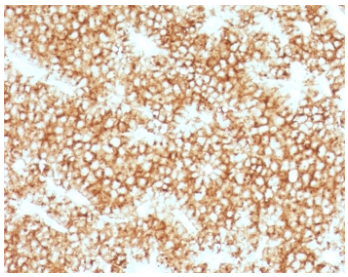
Parathyroid Hormone IHC Antibody / PTH Antibody / N-Terminal Rabbit Monoclonal [clone PRTM1-1R] (V3765)

Catalog No.	Formulation	Size
V3765-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3765-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3765SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3765IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PRTM1-1R
Purity	Protein A affinity chromatography
UniProt	P01270
Localization	Cytoplasmic and secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This Parathyroid Hormone antibody is available for research use only.



Parathyroid Hormone IHC Antibody immunohistochemistry analysis of PTH in human parathyroid gland tissue. FFPE human parathyroid gland tissue was stained using Parathyroid Hormone antibody clone PRTM1-1R following heat induced epitope retrieval by steaming sections in pH 9 Tris-EDTA buffer (10mM Tris, 1mM EDTA) for 10-20 minutes prior to staining. HRP-DAB brown chromogenic signal highlights strong cytoplasmic staining in parathyroid endocrine chief cells, consistent with the known localization of Parathyroid hormone (PTH), a key regulator of calcium homeostasis produced by parathyroid gland cells. The staining pattern demonstrates robust detection of hormone-producing parathyroid tissue and supports the use of Parathyroid Hormone IHC Antibody / PTH Antibody (clone PRTM1-1R) for immunohistochemistry analysis of PTH expression in FFPE tissue sections.

Description

Parathyroid hormone (PTH), encoded by the PTH gene, is a peptide hormone produced by endocrine chief cells of the parathyroid glands and serves as a central regulator of calcium and phosphate homeostasis. Through effects on bone remodeling, renal calcium reabsorption, and vitamin D activation, PTH maintains systemic mineral balance. Parathyroid Hormone IHC Antibody / PTH Antibody enables immunohistochemistry detection of PTH in formalin-fixed paraffin-embedded tissue sections, allowing visualization of hormone-producing parathyroid cells in histological specimens commonly examined in endocrine pathology.

Parathyroid Hormone IHC Antibody clone PRTM1-1R is a recombinant rabbit monoclonal antibody developed for sensitive detection of PTH protein in tissue sections using immunohistochemistry. In FFPE samples, PTH immunohistochemistry typically produces strong cytoplasmic staining in parathyroid chief cells, reflecting intracellular synthesis and storage of the hormone prior to secretion. This staining pattern allows clear identification of parathyroid endocrine tissue within surgical specimens and supports studies examining hormone-producing cell populations in histological sections.

PTH immunohistochemistry is widely used in diagnostic pathology to confirm parathyroid origin in endocrine tumors of the neck region. Strong cytoplasmic staining observed with a PTH antibody can assist in distinguishing parathyroid adenoma, parathyroid hyperplasia, and parathyroid carcinoma from morphologically similar thyroid lesions or metastatic tumors. Because parathyroid glands may be small or ectopic in surgical samples, immunohistochemistry detection of PTH provides an important molecular marker for confirming parathyroid tissue identity.

The PTH protein is synthesized as preproparathyroid hormone and undergoes intracellular processing before secretion as the biologically active peptide hormone. Immunohistochemistry detection therefore highlights cytoplasmic localization within hormone-producing endocrine cells of the parathyroid gland. Visualization of this staining pattern using a Parathyroid Hormone antibody enables researchers and pathologists to evaluate endocrine cell distribution and hormone expression within tissue sections.

This recombinant rabbit monoclonal antibody clone PRTM1-1R recognizes Parathyroid hormone and is suitable for immunohistochemistry-based detection of PTH expression in FFPE tissue sections. A Parathyroid Hormone IHC Antibody supports research and diagnostic studies involving parathyroid gland biology, endocrine tumor pathology, and histological analysis of hormone-producing cells.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Parathyroid Hormone IHC Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

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

Storage

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

Alternate Names

PTH antibody, Parathyroid hormone antibody, Parathyroid hormone immunohistochemistry antibody, PTH immunohistochemistry antibody