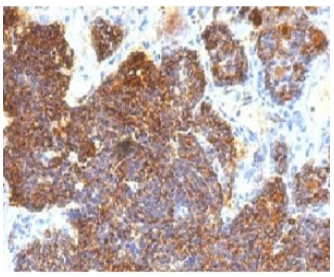
Parathyroid Hormone Antibody C Terminus [clone PRTM1-3] (V7126)

Catalog No.	Formulation	Size
V7126-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7126-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7126SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7126IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PRTM1-3
Purity	Protein G 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 Antibody C Terminus immunohistochemistry of human parathyroid gland. FFPE human parathyroid tissue stained with Parathyroid Hormone Antibody C Terminus clone PRTM1-3, a mouse monoclonal antibody recognizing the C-terminal region of Parathyroid hormone (PTH). Strong cytoplasmic brown chromogenic staining is observed in parathyroid endocrine chief cells, consistent with the expected intracellular localization of Parathyroid hormone within hormone-producing cells of the parathyroid gland. Immunohistochemistry staining was performed following heat-induced epitope retrieval by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes, followed by cooling at room temperature for 20 minutes prior to staining.

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 major regulator of systemic calcium and phosphate homeostasis. Acting through coordinated effects on bone, kidney, and vitamin D metabolism, PTH maintains stable circulating calcium levels essential for skeletal integrity and cellular signaling. Parathyroid Hormone Antibody C Terminus enables detection of Parathyroid hormone expression while specifically recognizing the carboxyl-terminal region of the hormone in endocrine tissues and related research samples.

Antibodies directed against the carboxyl-terminal portion of PTH are commonly described in the literature as PTH C-terminal antibody, PTH C-terminus antibody, or Parathyroid hormone C-terminal antibody, reflecting recognition of the hormoneÃ¢Â€Â™s C-terminal domain. Detection of this region is useful for studies investigating hormone processing, degradation, and intracellular storage, as fragments derived from the C-terminal region can remain within endocrine cells or circulation after cleavage of the mature hormone. Because the PTH molecule undergoes intracellular processing and metabolic fragmentation, antibodies recognizing the C-terminus provide complementary information to antibodies directed against the N-terminal region.

PTH is synthesized as preproparathyroid hormone in parathyroid chief cells and is processed intracellularly to generate the mature hormone prior to secretion. In tissue sections, Parathyroid hormone is typically localized within the cytoplasm of endocrine cells responsible for hormone synthesis and storage. Immunohistochemistry detection of this cytoplasmic staining pattern enables visualization of hormone-producing parathyroid cells and supports studies investigating endocrine cell distribution within parathyroid gland tissue.

PTH antibodies are widely used in endocrine biology and pathology research involving parathyroid tissue and related tumors. Detection of Parathyroid hormone expression assists in confirming parathyroid origin of endocrine lesions and supports research investigating parathyroid adenoma, parathyroid hyperplasia, and parathyroid carcinoma. Because parathyroid tissue can sometimes be difficult to distinguish from adjacent thyroid structures in histologic sections, immunodetection using a PTH antibody provides a useful molecular marker for identifying parathyroid-derived endocrine cells.

This mouse monoclonal antibody clone PRTM1-3 recognizes the C-terminal region of Parathyroid hormone. A PTH antibody directed against the C-terminus supports studies examining hormone biosynthesis, intracellular processing, and tissue expression patterns of Parathyroid hormone in endocrine tissues.

Application Notes

Titering of the Parathyroid Hormone Antibody C Terminus may be required for optimal performance.

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 C-terminal partial recombinant protein from the human protein was used as the immunogen for the Parathyroid Hormone antibody.

Storage

Store the 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, PTH C-terminal antibody, Parathyroid hormone C-terminal antibody

Copyright © NSJ Bioreagents. All rights reserved.