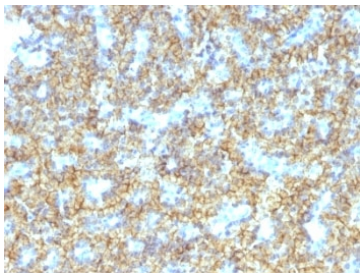
PTH Antibody Immunohistochemistry / Parathyroid Hormone / C-Terminal [clone PTH/1174] (V2810)

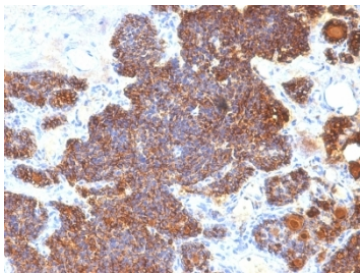
Catalog No.	Formulation	Size
V2810-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2810-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2810SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2810IHC-7ML	Prediluted 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	PTH/1174
Purity	Protein G 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 Immunohistochemistry analysis of Parathyroid hormone in human parathyroid tissue. FFPE human parathyroid tissue was stained using PTH antibody clone PTH/1174 following heat induced epitope retrieval prior to staining. HRP-DAB brown chromogenic signal highlights strong cytoplasmic staining in parathyroid endocrine chief cells arranged in nests and cords, consistent with the known expression of Parathyroid hormone (PTH), a key regulator of calcium homeostasis produced by parathyroid gland cells. The staining pattern demonstrates robust detection of hormone-producing endocrine tissue and supports the use of PTH Antibody Immunohistochemistry / Parathyroid Hormone (clone PTH/1174) for immunohistochemistry analysis of PTH expression in FFPE tissue sections.



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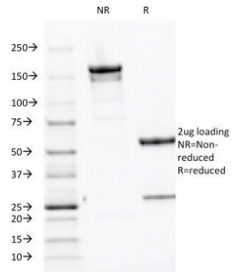

SDS-PAGE Analysis of Purified, BSA-Free PTH Antibody (clone PTH/1174). Confirmation of Integrity and Purity of the Antibody.

Description

Parathyroid hormone (PTH), encoded by the PTH gene, is a peptide hormone produced by endocrine chief cells of the parathyroid glands and plays a critical role in the regulation of systemic calcium and phosphate balance. By acting on bone, kidney, and vitamin D metabolism pathways, PTH maintains mineral homeostasis and supports normal skeletal physiology. PTH Antibody Immunohistochemistry / Parathyroid Hormone enables visualization of PTH protein in formalin-fixed paraffin-embedded tissue sections, supporting immunohistochemistry analysis of parathyroid endocrine cells in histological specimens used for endocrine pathology and research.

PTH Antibody Immunohistochemistry clone PTH/1174 is a mouse monoclonal antibody designed for sensitive immunohistochemistry detection of Parathyroid hormone in tissue sections. In FFPE samples, immunohistochemistry staining typically demonstrates strong cytoplasmic signal in parathyroid chief cells that synthesize and store PTH prior to secretion. This cytoplasmic staining pattern allows clear identification of hormone-producing endocrine cells within parathyroid gland tissue and provides a reliable molecular marker for evaluating endocrine cell populations in histological preparations.

Immunohistochemistry detection of PTH is widely used in surgical pathology to confirm parathyroid origin in tumors of the neck region. Parathyroid adenoma, parathyroid hyperplasia, and parathyroid carcinoma frequently demonstrate strong staining with a PTH antibody, reflecting active hormone production in these lesions. This diagnostic staining pattern helps distinguish parathyroid-derived tumors from thyroid follicular lesions or metastatic neoplasms that may occur in adjacent anatomical locations.

The PTH protein is synthesized as preproparathyroid hormone and undergoes intracellular processing before secretion as the biologically active peptide hormone. Because hormone production occurs within endocrine cells of the parathyroid gland, immunohistochemistry detection using a PTH antibody highlights cytoplasmic localization within these cells. Visualization of this staining pattern assists pathologists and researchers in identifying parathyroid tissue and assessing endocrine tumor specimens in FFPE sections.

This mouse monoclonal antibody clone PTH/1174 recognizes Parathyroid hormone and is suitable for immunohistochemistry detection of PTH expression in tissue sections. A PTH antibody optimized for immunohistochemistry supports studies investigating parathyroid gland biology, endocrine tumor pathology, and the histological distribution of hormone-producing cells in human tissues.

Application Notes

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

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
2. 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

Amino acids 32-115 of human PTH was used as the immunogen for the Parathyroid Hormone antibody. The epitope of this mAb maps in the C-terminus of PTH.

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, Parathyroid hormone immunohistochemistry antibody, PTH immunohistochemistry antibody