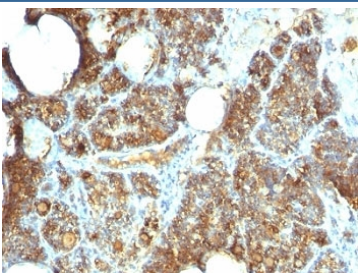


## PTH Antibody C Terminus / Parathyroid Hormone Antibody [clone PTH/1173] (V2809)

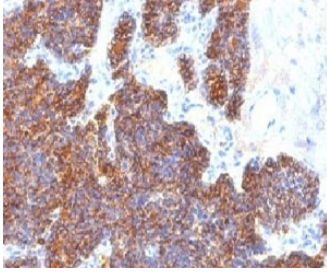
Catalog No.	Formulation	Size
V2809-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2809-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2809SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2809IHC-7ML	Prediluted 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

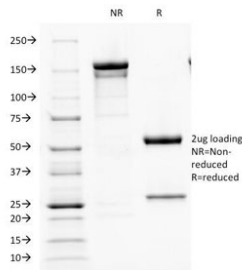
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	PTH/1173
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P01270
<b>Localization</b>	Cytoplasmic and secreted
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1) (2)
<b>Limitations</b>	This Parathyroid Hormone antibody is available for research use only.



PTH Antibody C Terminus immunohistochemistry of human parathyroid gland. FFPE human parathyroid tissue stained with PTH Antibody C Terminus / Parathyroid Hormone Antibody clone PTH/1173, 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.



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SDS-PAGE Analysis of Purified, BSA-Free Parathyroid Hormone Antibody (clone PTH/1173). Confirmation of Integrity and Purity of the Antibody.

## 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 primary regulator of systemic calcium and phosphate homeostasis. By acting on bone, kidney, and vitamin D metabolism, Parathyroid hormone maintains circulating calcium concentrations essential for skeletal integrity and cellular signaling. PTH Antibody C Terminus enables detection of Parathyroid hormone expression while specifically recognizing the carboxyl-terminal portion of the hormone in endocrine tissues and related research samples.

Antibodies directed against the carboxyl-terminal region 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 hormone's C-terminal domain. Because Parathyroid hormone undergoes intracellular processing and metabolic cleavage after secretion, fragments derived from the C-terminal region may remain within cells or circulation. Detection of this region can therefore be useful for studies investigating hormone metabolism, processing, and endocrine signaling pathways.

PTH is synthesized in parathyroid chief cells as preproparathyroid hormone and subsequently processed intracellularly to produce the mature peptide hormone prior to secretion. Within tissue sections, Parathyroid hormone typically demonstrates cytoplasmic localization in endocrine chief cells where hormone synthesis and storage occur. Immunohistochemistry detection of this staining pattern allows visualization of hormone-producing parathyroid cells and supports studies examining endocrine cell populations within the parathyroid gland.

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 contributes to characterization of parathyroid adenoma, parathyroid hyperplasia, and parathyroid carcinoma. Because parathyroid tissue may be difficult to distinguish from surrounding thyroid structures in histologic sections, immunodetection using a Parathyroid Hormone antibody provides an important molecular marker for identifying parathyroid-derived endocrine cells.

This mouse monoclonal antibody clone PTH/1173 recognizes the C-terminal region of Parathyroid hormone. A Parathyroid Hormone antibody directed against the C-terminus supports studies investigating hormone biosynthesis, peptide processing, and tissue expression patterns of PTH in endocrine tissues.

## Application Notes

Optimal dilution of the Parathyroid Hormone antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA 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 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