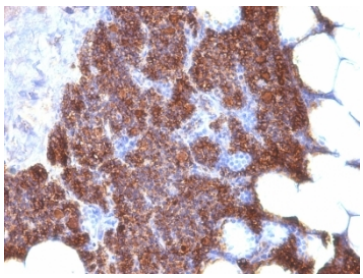
PTH Antibody Cocktail / C + N-Terminal [clone 3H9 + PTH/1175] (V2812)

Catalog No.	Formulation	Size
V2812-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2812-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2812SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2812IHC-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	3H9 + PTH/1175
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 cocktail is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human parathyroid stained with PTH antibody (3H9 + PTH/1175).

Description

PTH is a hormone produced by the parathyroid gland that regulates the concentration of calcium and phosphorus in extracellular fluid. This hormone elevates blood Ca2+ levels by dissolving the salts in bone and preventing their renal excretion. It is produced in the parathyroid gland as an 84 amino acid single chain polypeptide. It can also be secreted as N-terminal truncated fragments or C-terminal fragments after intracellular degradation, as in case of hypercalcemia. Defects in this gene are a cause of familial isolated hypoparathyroidism (FIH); also called autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. FIH exist both as autosomal dominant and recessive forms of hypoparathyroidism.

Application Notes

Optimal dilution of the PTH antibody cocktail 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

Synthetic peptides corresponding to amino acids 1 to 34 (clone 3H9) and 32-115 (clone PTH/1175) were used as the immunogen for the PTH antibody cocktail.

Storage

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