

Parathyroid Hormone (PTH) (Clone ZM155) Mouse Monoclonal Antibody

Specificity: Human. Others not tested

Immunogen: Recombinant human PTH protein fragment (aa32-115)

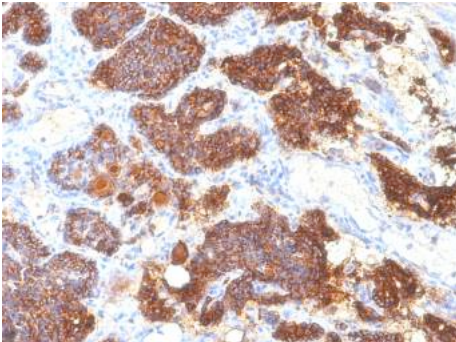
Ig Class: IgG2b/k

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200. *Positive Control:* Parathyroid. *Cellular Localization:* Cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Description: Epitope of this MAb maps in the C-terminus of PTH, 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.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



References:

1. Ordoñez NG, et al. Am J Surg Pathol. 1983; 7:535-42.
2. Westra WH, et al. Am J Surg Pathol. 1998; 22:538-44
3. Nonaka D. Am J Surg Pathol. 2011; 35:145-51.

Formalin-fixed, paraffin-embedded human parathyroid gland stained with anti-PTH antibody using peroxidase conjugate and DAB chromogen. Note the cytoplasmic staining in glandular cells

Cat. #Z2468 (1.0 ml)