Human Parathyroid Hormone
Clone 105G7
Cat. no. MONX10147

Specificity
The parathyroid glands are small, oval, endocrine glands closely associated with the thyroid gland. The glands regulate serum calcium and phosphate levels via parathyroid hormone (parathormone). Parathyroid hormone raises serum calcium levels by a direct mechanism on the bone increasing the rate of osteoclastic resorption and promoting breakdown of the bone matrix, by increasing the renal tubular reabsorption of calcium ions and inhibiting the reabsorption of phosphate ions from the glomerular filtrate and finally by promoting the absorption of calcium from the small intestine, involving vitamin D. Parathyroid hormone is the most important regulator of blood calcium levels and is essential to life whereas calcitonin appears only to provide a complementary mechanism for fine adjustment. Chief cells are the most abundant cells in the parathyroid gland and are responsible for the secretion of parathyroid hormone. MONX10147 is useful for the immunohistochemical detection of parathyroid hormone which, when used in conjunction with antibodies to thyroglobulin for each suspected parathyroid lesion, is helpful to differentiate parathyroid from thyroid tissue.

Immunoglobulin type
Mouse IgG2a

Use
The antibody can be used for immunohistochemistry on paraffin sections.

Instructions for use

Immunohistochemistry:
Typical working dilution 1:150 - 1:300.
60 minutes primary antibody incubation at 25°C.
Standard ABC technique.

Antigen used for immunizations: Prokaryotic recombinant protein corresponding to the entire human parathyroid hormone molecule.
Staining pattern: Cytoplasmic and membrane

Positive control
Parathyroid

Presentation
Lyophilised tissue culture supernatant containing 15mM sodium azide.
Reconstitute with 1ml or 0.1ml of sterile distilled water as indicated on vial label.

Literature

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**Storage and Handling**

Store unopened lyophilised antibody at 4°C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4°C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20°C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.

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