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12-1236: Anti-Parathyroid Hormone (PTH)(N-Terminal) Recombinant Mouse Monoclonal Antibody (Clone:rPTH/911)

Clonality :	Monoclonal
Clone Name :	rPTH/911
Application :	IHC
Reactivity :	Human
Gene :	PTH
Gene ID :	5741
Uniprot ID :	P01270
Format :	Purified
Alternative Name :	hPTH; Parathormone; Parathyrin; Parathyroid hormone 1 (PTH1); Parathyroid hormone (PTH)
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant human PTH protein N-terminal fragment (exact sequence is proprietary)

Description

Epitope of this MAb maps in the N-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.Â 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.

Product Info

Amount :	20 µg / 100 µg
Purification :	Protein A/G
Content :	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed. Not suitable for frozen tissues.) (1-2Ã□Âµg/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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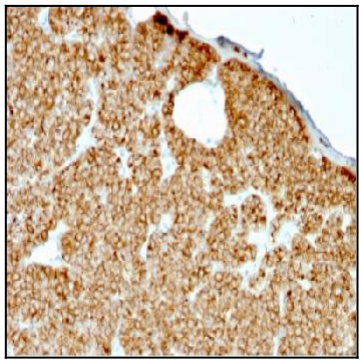

Figure 1: Formalin-fixed, paraffin-embedded human Parathyroid stained with PTH Mouse Recombinant Monoclonal Antibody (rPTH/911).

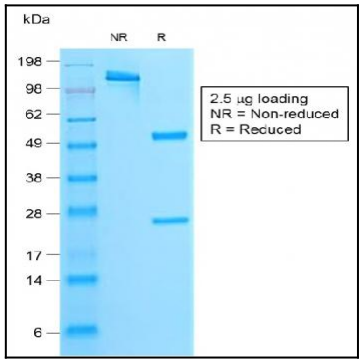

Figure 2: SDS-PAGE Analysis of Purified PTH Mouse Recombinant Monoclonal Antibody (rPTH/911).