

Mouse Parathyroid Hormone (PTH) Monoclonal Antibody | anti-PTH antibody

Parathyroid Hormone (PTH) (N-Terminal) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13828	Mouse	Human.Predicted to react with Mouse, Rat, Rabbit, Cow, Dog, Pig, Deer and Orangutan	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

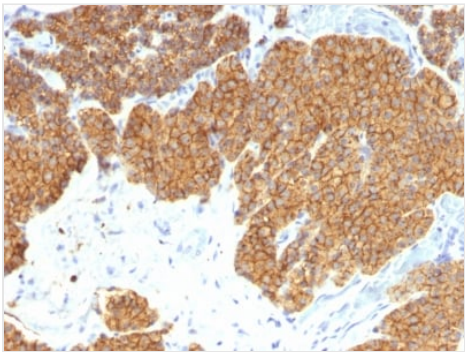
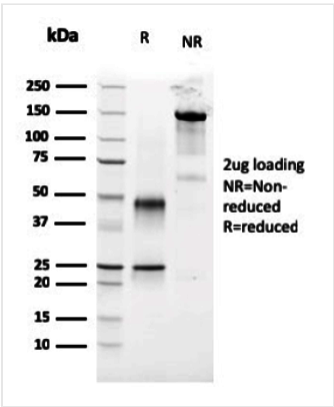
PRODUCT SYNONYMS

Parathyroid Hormone (PTH); Monoclonal Antibody; Parathyroid Hormone (PTH) (N-Terminal) Mouse Monoclonal Antibody; hPTH; Parathormone; Parathyrin; Parathyroid hormone 1 (PTH1); Parathyroid hormone (PTH); anti-PTH antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Predicted to react with Mouse, Rat, Rabbit, Cow, Dog, Pig, Deer and Orangutan
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	3H9
Specificity	Epitope of this MAb maps in between aa 1-34. PTH is a hormone produced by the parathyroid gland that regulates the concentration of calcium and phosphorus in extracellular fluid. This hormone elevates blood Ca ²⁺ 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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	115
Applicable Applications for anti-PTH antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Immunohistochemistry(Formalin-fixed) (1-2ug/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°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Cellular Localization	Cytoplasmic and Secreted
Immunogen	Synthetic peptide corresponding to amino acids 1 to 34 of mature PTH-polypeptide (exact sequence is proprietary)
Hu-Chromosome Location	11p15.3-p15.1
Positive Control	Human parathyroid gland carcinoma
Preparation and Storage	Antibody without azide - store at -20 to -80°C. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Parathyroid Gland stained with PTH Mouse Monoclonal Antibody (3H9).

SDS-PAGE
SDS-PAGE Analysis Purified PTH Mouse Monoclonal Antibody (3H9). Confirmation of Purity and Integrity of Antibody

ADDITIONAL INFORMATION

References	Watson, P.H. and Hanley, D.A. 1993. Parathyroid hormone: regulation of synthesis and secretion. Clin. Invest. Med. 16: 58-77.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506267
NCBI GeneID	5741
NCBI Accession #	NP_000306.1
NCBI GenBank Nucleotide #	NM_000315.3
UniProt Accession #	P01270; Q4VB48; Q9UD38
Molecular Weight	9kDa
NCBI Official Full Name	parathyroid hormone isoform 1 preproprotein
NCBI Official Synonym Full Names	parathyroid hormone
NCBI Official Symbol	PTH
NCBI Official Synonym Symbols	PTH1
NCBI Protein Information	parathyroid hormone
UniProt Protein Name	Parathyroid hormone
UniProt Gene Name	PTH
UniProt Synonym Gene Names	PTH
UniProt Entry Name	PTHY_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.