

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide Mouse Monoclonal Antibody [Clone 3H9 + PTH/1175] Catalog # AH12161

Specification

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - Product Information

Application IHC, IF, FC **Primary Accession** P01270 Other Accession 5741, 37045 Reactivity Human Host Mouse Clonality **Monoclonal** Isotype Mouse / IgG's Calculated MW 9kDa KDa

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - Additional Information

Gene ID 5741

Other Names

Parathyroid hormone, PTH, Parathormone, Parathyrin, PTH

Application Note

IHC \sim 1:100 \sim 500<br \> <span class
="dilution IF">IF \sim 1:50 \sim 200<br \> FC \sim 1:10 \sim 50

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - Protein Information

Name PTH {ECO:0000303|PubMed:35932760, ECO:0000312|HGNC:HGNC:9606}

Function

Parathyroid hormone elevates calcium level by dissolving the salts in bone and preventing their renal excretion (PubMed:11604398, PubMed:35932760). Acts by binding to its receptor, PTH1R, activating G protein-coupled receptor signaling (PubMed:18375760, PubMed:35932760). Stimulates [1-14C]-2-deoxy-D-glucose (2DG) transport and



glycogen synthesis in osteoblastic cells (PubMed:21076856).

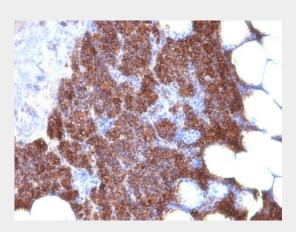
Cellular Location Secreted

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - Images

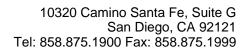


Formalin-fixed, paraffin-embedded human Parathyroid stained with PTH Monoclonal Antibody (3H9 + PTH/1175).

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - Background

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.Ālt 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.

Parathyroid Hormone (PTH) (N- & C-Terminal) Antibody - With BSA and Azide - References





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