

PAA472Hu02

Polyclonal Antibody to Calcitonin (CT)

Organism Species: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[PRODUCT INFORMATION]

Immunogen: Calcitonin-OVA

Purification: Affinity Chromatography.

Clonality: Polyclonal

Applications: WB, ICC, IHC-P, IHC-F, ELISA

Host: Rabbit

Concentration: 200µg/mL

Immunoglobulin Type: IgG

UOM: 100µg

[IMMUNOGEN INFORMATION]

Immunogen: Synthetic Peptide, Calcitonin conjugated to OVA.

Accession No.: CPA472Hu21

Sequence: The target peptide sequence is listed below.

FNKFHTFPQTAIGVGAP

[RELEVANCE]

Calcitonin is a 32-amino acid linear polypeptide hormone that is produced in humans primarily by the parafollicular cells of the thyroid, and in many other animals in the ultimobranchial body. It acts to reduce blood calcium (Ca²⁺), opposing the effects of parathyroid hormone (PTH). Calcitonin has been found in fish, reptiles, birds, and mammals. Calcitonin is formed by the proteolytic cleavage of a larger prepropeptide, which is the product of the CALC1 gene. Calcitonin can be used therapeutically for the treatment of hypercalcemia or

osteoporosis. It may be used diagnostically as a tumor marker for medullary thyroid cancer, in which high calcitonin levels may be present and elevated levels after surgery may indicate recurrence.

[ANTIBODY SPECIFICITY]

The antibody is a rabbit polyclonal antibody raised against Calcitonin conjugated to OVA. It has been selected for its ability to recognize Calcitonin in immunohistochemical staining and western blotting.

[APPLICATIONS]

Western blotting: 1:100-400

Immunocytochemistry in formalin fixed cells: 1:100-500

Immunohistochemistry in formalin fixed frozen section: 1:100-500

Immunohistochemistry in paraffin section: 1:50-200

Enzyme-linked Immunosorbent Assay: 1:100-200

Optimal working dilutions must be determined by end user.

[CONTENTS]

Form & Buffer: Supplied as solution form in PBS, pH7.4, containing 0.02% NaN₃, 50% glycerol.

[STORAGE]

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.

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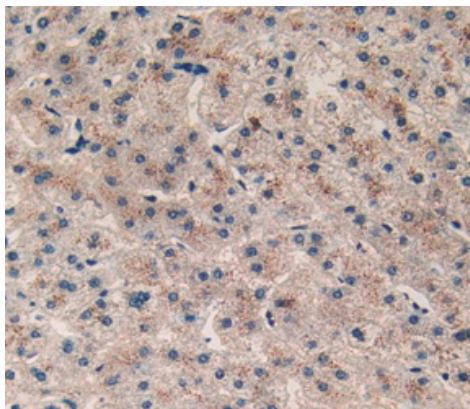
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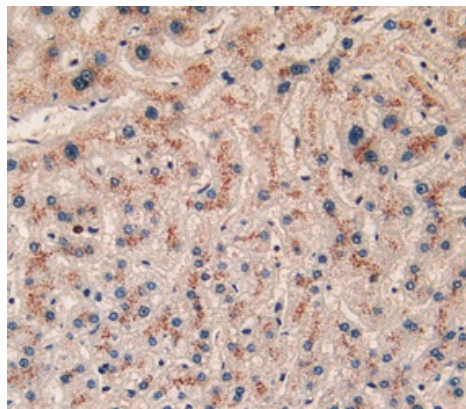
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**Used in DAB staining on formalin fixed
paraffin- embedded liver tissue**



**Used in DAB staining on formalin fixed
paraffin- embedded liver cancer tissue**