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Anti-Calcitonin Picoband Antibody

Catalog # ABO12621

Specification

Anti-Calcitonin Picoband Antibody - Product Information

Application	**IHC-P**
Primary Accession	P06881
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Calcitonin gene-related peptide 1(CALCA) detection. Tested with IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Calcitonin Picoband Antibody - Additional Information

Gene ID 796

Other Names
Calcitonin gene-related peptide 1, Alpha-type CGRP, Calcitonin gene-related peptide I, CGRP-I, CALCA, CALC1

Calculated MW
13898 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Subcellular Localization
Secreted.

Protein Name
Calcitonin gene-related peptide 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Calcitonin (83-119aa ACDTATCVTHRLAGLLSRSGGVVKNNFVPTNVGSKAF), different from the related mouse and rat sequences by four amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Calcitonin Picoband Antibody - Protein Information

Name CALCA (HGNC:1437)

Synonyms CALC1

Function
CGRP1/CALCA is a peptide hormone that induces vasodilation mediated by the CALCRL-RAMP1 receptor complex (PubMed:1318039, PubMed:33602864, PubMed:9620797). Dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role (PubMed:3492492). It also elevates platelet cAMP (PubMed:1318039). CGRP1 can also bind and activate CALCR-RAMP1 (AMYR1) receptor complex (PubMed:38603770).

Cellular Location
Secreted.

Tissue Location
Expressed in spinal cord.

Anti-Calcitonin Picoband Antibody - 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

Anti-Calcitonin Picoband Antibody - Images

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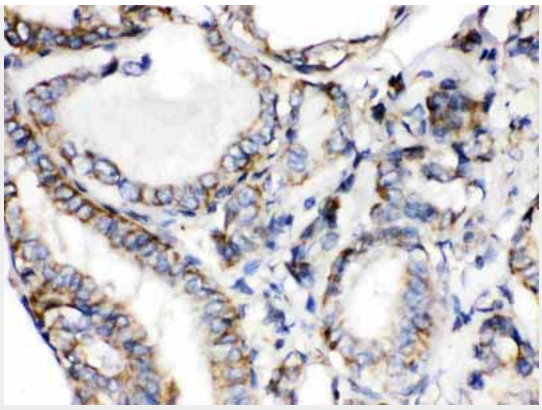

Calcitonin was detected in paraffin-embedded sections of human thyroid cancer tissues using rabbit anti- Calcitonin Antigen Affinity purified polyclonal antibody (Catalog # ABO12621) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-Calcitonin Picoband Antibody - Background

Calcitonin, also known as CALCA, is a peptide hormone synthesized by the parafollicular cells of the thyroid. It is mapped to 11p15.2. Calcitonin belongs to the calcitonin-like protein family. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator and as an antimicrobial peptide while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.