

# Anti-Calcitonin Picoband Antibody

Catalog # ABO12621

### Specification

# Anti-Calcitonin Picoband Antibody - Product Information

ApplicationIHC-PPrimary AccessionP06881HostRabbitReactivityHumanClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Calcitonin gene-related peptide 1(CALCA) detection. Tested withIHC-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<br> <br>

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:<a href="http://www.uniprot.org/citations/1318039" target="\_blank">1318039</a>, PubMed:<a href="http://www.uniprot.org/citations/33602864" target="\_blank">33602864</a>, PubMed:<a href="http://www.uniprot.org/citations/9620797" target="\_blank">9620797</a>). 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:<a href="http://www.uniprot.org/citations/3492492" target="\_blank">3492492</a>). It also elevates platelet cAMP (PubMed:<a href="http://www.uniprot.org/citations/3492492" target="\_blank">1318039</a>). CGRP1 can also bind and activate CALCR-RAMP1 (AMYR1) receptor complex (PubMed:<a href="http://www.uniprot.org/citations/1318039" target="\_blank">38603770</a>).

**Cellular Location** Secreted.

**Tissue Location** Expressed in spinal cord.

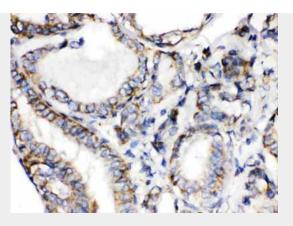
### **Anti-Calcitonin Picoband Antibody - Protocols**

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

**Anti-Calcitonin Picoband Antibody - Images** 





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.