

Anti-Calcitonin Picoband Antibody

Catalog # ABO12621

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.

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	13899
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Calcitonin gene-related peptide 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Calcitonin (83-119aa ACDTATCVTHRLAGLLSRSGGVKNNFVPTNVGSKAF), 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 reconstitution, 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.

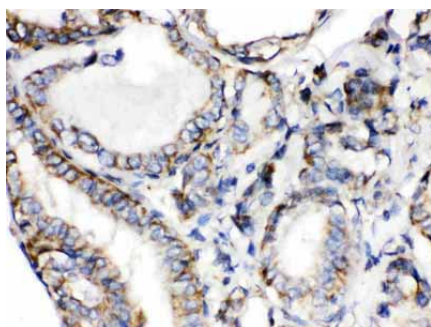
Protein Information

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.

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.

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 µg/mL. The immunohistochemical section was developed using SABC method .

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