Calcitonin Antibody / CALCA / CGRP [clone CALCA/3310] (V9637)

| Catalog No.	Formulation	Size
V9637-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9637-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9637SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CALCA/3310
Purity	Protein A/G affinity
UniProt	P01258
Localization	Cytoplasm, Secreted
Applications	Immunohistochemistry (FFPE) : 2-4ug/ml
Limitations	This Calcitonin antibody is available for research use only.
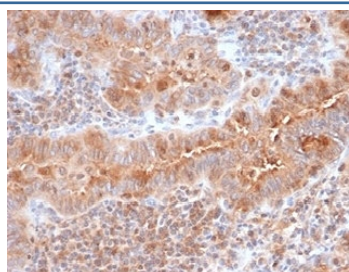
IHC staining of FFPE human thyroid with Calcitonin antibody (clone CALCA/3310). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.
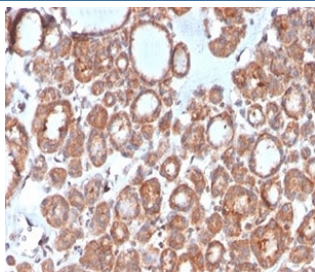
IHC staining of FFPE human thyroid tissue with Calcitonin antibody (clone CALCA/3310). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.
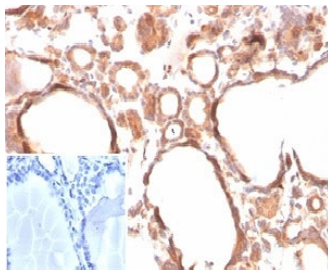
IHC staining of FFPE human thyroid tissue with Calcitonin antibody (clone CALCA/3310). Negative control insert: PBS used in place of primary antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation

Rank	Protein	Z score	S score
1	CALCA	105.08	88.55
2	ATRX	16.53	12.3
3	TEK	4.23	0.53
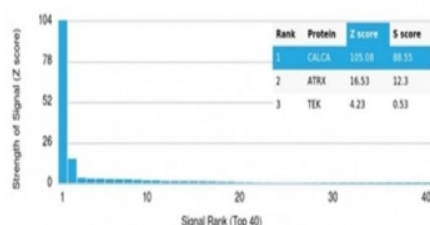
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Calcitonin antibody (clone CALCA/3310). These results demonstrate the foremost specificity of the CALCA/3310 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Calcitonin is a hormone that preserves skeletal integrity and reduces blood calcium levels by decreasing osteoclast activity in bones, calcium and phosphate reabsorption by kidney tubules and calcium absorption by the intestines. The secretion of Calcitonin from the thyroid is regulated in part by estrogen, which increases Calcitonin mRNA levels. The Calcitonin gene, CALCA, undergoes tissue-specific RNA alternative splicing, resulting in the production of different mRNA transcripts. One transcript encodes procalcitonin as well as both calcium-lowering processed active polypeptides, Calcitonin and katacalcin. An alternative transcript of CALCA encodes the precursor for the neuropeptide referred to as Calcitonin generelated peptide 1, also designated CGRP1 or -CGRP. Mature CGRP1 and CGRP2 share significant sequence identity at the protein level differing by only 1-3 amino acid residues, depending on the species.

Application Notes

Optimal dilution of the Calcitonin antibody should be determined by the researcher.

Immunogen

A portion of amino acids 3-116 was used as the immunogen for the Calcitonin antibody.

Storage

Aliquot the Calcitonin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.