

For Research Use Only

# CALCA/Calcitonin Monoclonal antibody

Catalog Number: 68774-1-Ig



## Basic Information

Catalog Number:	68774-1-Ig	GenBank Accession Number:	BC093753	Purification Method:	Protein A purification
Concentration:	1000 ug/ml	GeneID (NCBI):	796	CloneNo.:	1A12A1
Source:	Mouse	UNIPROT ID:	P01258	Recommended Dilutions:	WB 1:2000-1:10000 IHC 1:500-1:2000
Isotype:	IgG1	Full Name:	Calcitonin		
Immunogen Catalog Number:	AG26141	Calculated MW:	141 aa, 15 kDa		
		Observed MW:	14 kDa		

## Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Species Specificity:	human	WB :	TT cells,
		IHC :	human thyroid cancer tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>			

## Background Information

Calcitonin is a peptide hormone consisting of 32 amino acids, primarily synthesized by the parafollicular cells (C cells) of the human thyroid gland. It plays a crucial role in regulating calcium levels in the blood by decreasing them. Calcitonin opposes the actions of parathyroid hormone, which increases blood calcium levels. Calcitonin works through a G protein-coupled receptor, known as the calcitonin receptor, which predominantly transmits signals via the cAMP and PLC/IP3 pathways. Its primary physiological effects are on osteoclasts and the tubular epithelium of kidneys.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

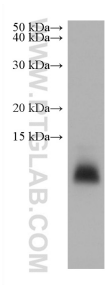
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

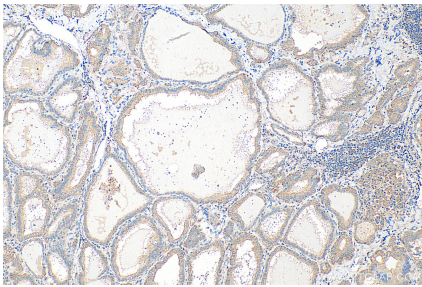
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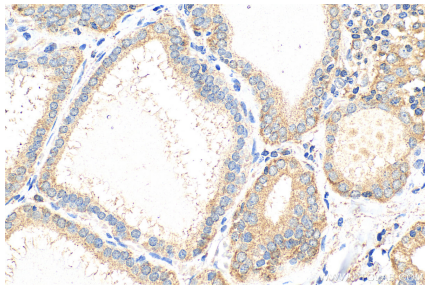
Selected Validation Data



TT cells were subjected to SDS PAGE followed by western blot with 68774-1-Ig (CALCA/CGRP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 68774-1-Ig (CALCA/CGRP antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 68774-1-Ig (CALCA/CGRP antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).