

For Research Use Only

# CALCA/Calcitonin Monoclonal antibody, PBS Only (Capture)

Catalog Number: 68774-1-PBS



## Basic Information

Catalog Number:

68774-1-PBS

Concentration:

1000  $\mu$ g/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG26141

GenBank Accession Number:

BC093753

GeneID (NCBI):

796

UNIPROT ID:

P01258

Full Name:

Calcitonin

Calculated MW:

141 aa, 15 kDa

Observed MW:

14 kDa

Purification Method:

Protein A purification

CloneNo.:

1A12A1

## Applications

Tested Applications:

WB, IHC, Cytometric bead array, Indirect ELISA,  
Sample test

Species Specificity:

human

## 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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

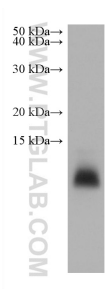
T: 4006900926

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

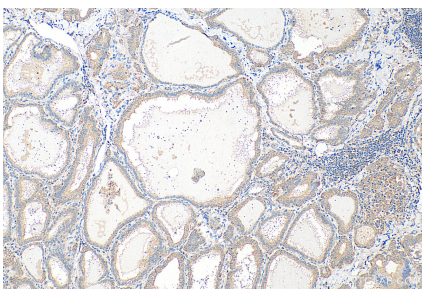
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

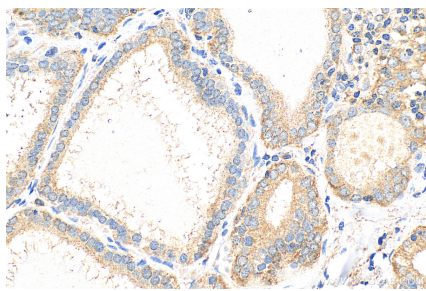
Selected Validation Data



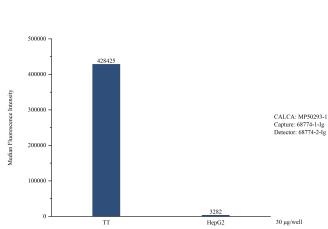
TT cells were subjected to SDS PAGE followed by western blot with 68774-1-Ig (CALCA/CGRP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68774-1-PBS in a different storage buffer formulation.



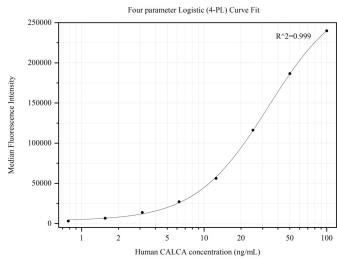
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 68774-1-Ig (CALCA/CGRP antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68774-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68774-1-PBS in a different storage buffer formulation.



Cytometric bead array in cell lysate using MP50293-1, CALCA Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68774-1-PBS. Detection antibody: 68774-2-PBS. Cell lysate: TT, HepG2.



Cytometric bead array standard curve of MP50293-1, CALCA Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68774-1-PBS. Detection antibody: 68774-2-PBS. Standard:Ag26141. Range: 0.781-100 ng/mL.