

For Research Use Only

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

Catalog Number: 83774-1-PBS



## Basic Information

Catalog Number:

83774-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001741.3

GeneID (NCBI):

796

UNIPROT ID:

P01258

Full Name:

Calcitonin

Calculated MW:

15kDa

Purification Method:

Protein A purification

CloneNo.:

240753G2

## Applications

Tested Applications:

IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

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:

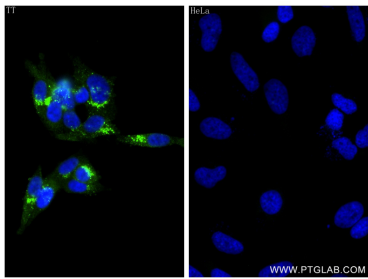
T: 4006900926

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

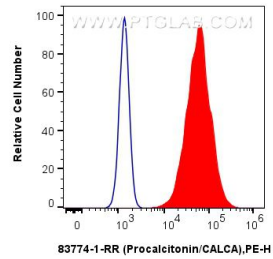
W: [ptgcn.com](http://ptgcn.com)

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

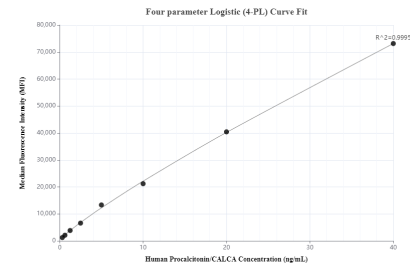
Selected Validation Data



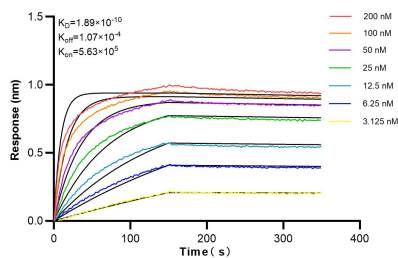
Immunofluorescent analysis of (4% PFA) fixed TT cells using Procalcitonin/CALCA antibody (83774-1-RR, Clone: 240753G2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).(negative control: HeLa cells) This data was developed using the same antibody clone with 83774-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> TT cells were intracellularly stained with 0.25 ug Procalcitonin/CALCA Recombinant Antibody (83774-1-RR, Clone:240753G2) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83774-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00728-1, CALCA/CGRP Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83774-1-PBS. Detection antibody: 83774-2-PBS. Standard: Eg1060. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83774-1-RR against Human CALCA/CGRP were performed. The affinity constant is 0.189 nM.