

For Research Use Only

# PDE4C Polyclonal antibody

Catalog Number: 21754-1-AP

7 Publications



## Basic Information

Catalog Number:

21754-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16130

GenBank Accession Number:

BC109067

GeneID (NCBI):

5143

UNIPROT ID:

Q08493

Full Name:

phosphodiesterase 4C, cAMP-specific  
(phosphodiesterase E1 dunc  
homolog, Drosophila)

Calculated MW:

712 aa, 80 kDa

Observed MW:

~70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : HEK-293 cells, mouse lung tissue

## Background Information

PDE4C (cAMP-specific 3,5-cyclic phosphodiesterase 4C) is also named as DPDE1 and belongs to the PDE4 subfamily, which play a key role in lung inflammation and hyperresponsiveness. PDE4C promotes the hydrolysis of cAMP, and PKD2, functioning as a Ca<sup>2+</sup> entry channel, may mediate local accumulation of Ca<sup>2+</sup> that inhibits the activity of Ca<sup>2+</sup>-sensitive ADCY5 (PMID:21670265). The three isoforms (84, 75, and 64 kDa) of PDE4C have been detected in cytosolic, microsomal, and nuclear (PMID:21784969).

## Notable Publications

| Author         | Pubmed ID | Journal                    | Application |
|----------------|-----------|----------------------------|-------------|
| Matthew Riopel | 32534258  | Mol Metab                  | WB          |
| Man Xu         | 31961716  | Am J Physiol Renal Physiol | WB          |
| Heng Li        | 32251674  | Biochem Pharmacol          | WB          |

## 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:

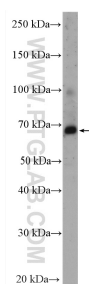
T: 4006900926

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



HEK-293 cells were subjected to SDS PAGE followed by western blot with 21754-1-AP (PDE4C antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.