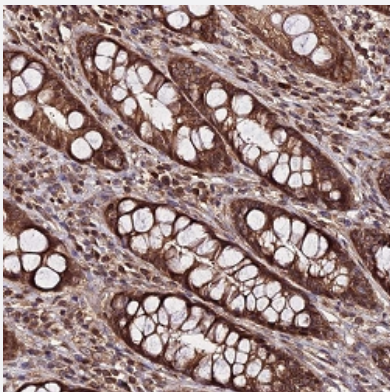


# PDE4D polyclonal antibody

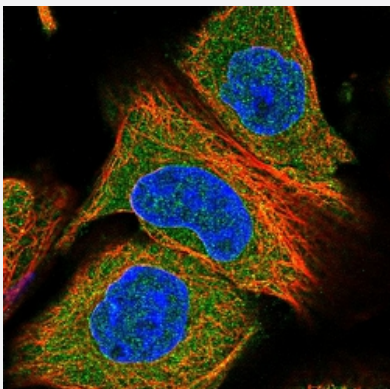
Catalog # PAB28329      Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human rectum with PDE4D polyclonal antibody ( Cat # PAB28329 ) shows strong cytoplasmic positivity in glandular cells at 1:200 - 1:500 dilution.



### Immunofluorescence

Immunofluorescent staining of human cell line A-431 with PDE4D polyclonal antibody ( Cat # PAB28329 ) at 1-4 ug/mL dilution shows positivity in nuclear membrane & cytoplasm.

## Specification

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| Product Description | Rabbit polyclonal antibody raised against recombinant PDE4D.           |
| Immunogen           | Recombinant protein corresponding to amino acids of recombinant PDE4D. |
| Sequence            | FELTLEEDGESDTEKDSGSQVEEDTSCSDSKTLCTQDSESTEIPLDEQVEEEAVG                |
| Host                | Rabbit                                                                 |
| Reactivity          | Human                                                                  |

|                     |                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                     |
| Purification        | Antigen affinity purification                                                                                                              |
| Isotype             | IgG                                                                                                                                        |
| Recommend Usage     | Immunohistochemistry (1:200-1:500)<br>Immunofluorescence (1-4 ug/ml)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)                                                                                          |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                     |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                     |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

Immunofluorescent staining of human cell line A-431 with PDE4D polyclonal antibody ( Cat # PAB28329 ) at 1-4 ug/mL dilution shows positivity in nuclear membrane & cytoplasm.

## Gene Info — PDE4D

|                    |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5144</a>                                                                 |
| Protein Accession# | <a href="#">Q08499</a>                                                               |
| Gene Name          | PDE4D                                                                                |
| Gene Alias         | DPDE3, HSPDE4D, PDE4DN2, STRK1                                                       |
| Gene Description   | phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila) |
| Omim ID            | <a href="#">600129</a> <a href="#">606799</a>                                        |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                            |

**Gene Summary**

This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins

**Other Designations**

cAMP-specific phosphodiesterase 4D|cAMP-specific phosphodiesterase PDE4D6|dunce-like phosphodiesterase E3|phosphodiesterase 4D, cAMP-specific (dunce

## Pathway

- [Purine metabolism](#)

## Disease

- [Angina](#)
- [Arterial Occlusive Diseases](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebral Infarction](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Coronary Stenosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Embolism](#)
- [Genetic Predisposition to Disease](#)
- [Heart Diseases](#)
- [Hypertension](#)
- [Inflammation](#)
- [Intracranial Arteriosclerosis](#)
- [Intracranial Hemorrhages](#)
- [Ischemia](#)
- [Ischemic Attack](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Obesity](#)
- [Personality Inventory](#)
- [Pulmonary Disease](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Stroke](#)
- [Thyroid Diseases](#)

- [Tobacco Use Disorder](#)
- [Werner syndrome](#)