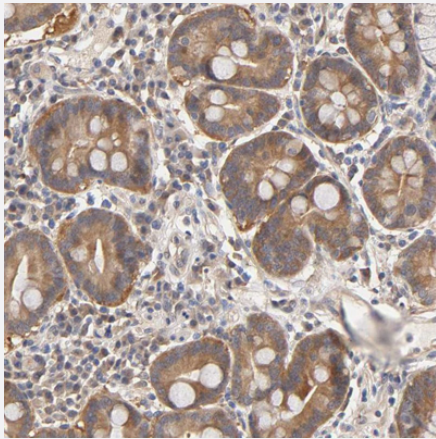


PDE5A polyclonal antibody

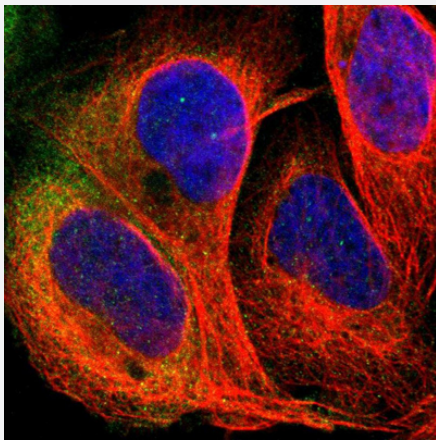
Catalog # PAB31127 Size 100 uL

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human duodenum shows moderate cytoplasmic positivity in glandular cells.



Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS shows localization to cytosol. Antibody staining is shown in green.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human PDE5A.
Immunogen	Recombinant protein corresponding to amino acids 303-442 of human PDE5A.
Sequence	FAAYLAFCGIVLHNAQLYETSLLENKRNQVLLDLASLIFEEQQSLEVILKKAATISFMQVQKCTIFV DEDCSDSFSSVFHMECEELEKSSDTLTREHDANKINMYAQYVKNTMEPLNIPDVSKDKRFPWT TENTGN

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500) 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 short term storage. For long term storage store at -20°C. 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

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Gene Info — PDE5A

Entrez GeneID	8654
Protein Accession#	Q76074
Gene Name	PDE5A
Gene Alias	CGB-PDE, CN5A, PDE5, PDE5A1
Gene Description	phosphodiesterase 5A, cGMP-specific
Omim ID	603310
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a cGMP-binding, cGMP-specific phosphodiesterase, a member of the cyclic nucleotide phosphodiesterase family. This phosphodiesterase specifically hydrolyzes cGMP to 5'-GMP. It is involved in the regulation of intracellular concentrations of cyclic nucleotides and is important for smooth muscle relaxation in the cardiovascular system. Alternative splicing of this gene results in three transcript variants encoding distinct isoforms. [provided by RefSeq]

Other Designations

cGMP-binding cGMP-specific 3',5'-cyclic nucleotide phosphodiesterase|phosphodiesterase 5A

Publication Reference

- [PDE5 exists in human neurons and is a viable therapeutic target for neurologic disease.](#)

Teich AF, Sakurai M, Patel M, Holman C, Saeed F, Fiorito J, Arancio O.

Journal of Alzheimer's Disease 2016 Jan; 52(1):295.

Application: IHC-P, WB-Ti, Human, Human brain

Pathway

- [Purine metabolism](#)

Disease

- [Alcoholism](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Nephrotic Syndrome](#)
- [Proteinuria](#)
- [Tobacco Use Disorder](#)