

**Anti-PDE5A Picoband Antibody**  
Catalog # ABO10250

**Specification**

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**Anti-PDE5A Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O76074</a>
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for cGMP-specific 3',5'-cyclic phosphodiesterase(PDE5A) detection. Tested with WB, IHC-P in Human;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-PDE5A Picoband Antibody - Additional Information**

**Gene ID** 8654

**Other Names**

cGMP-specific 3', 5'-cyclic phosphodiesterase, 3.1.4.35, cGMP-binding cGMP-specific phosphodiesterase, CGB-PDE, PDE5A, PDE5

**Calculated MW**

99985 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Tissue Specificity**

Expressed in aortic smooth muscle cells, heart, placenta, skeletal muscle and pancreas and, to a much lesser extent, in brain, liver and lung.

**Protein Name**

cGMP-specific 3',5'-cyclic phosphodiesterase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human PDE5A (20-63aa QKQQQRDQDSVEAWLDDHWDFTFSYFVRKATREMVNAWFAERVH), different from the related mouse sequence by eight amino acids.

**Purification**

Immunogen affinity purified.

#### Cross Reactivity

No cross reactivity with other proteins

Storage

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

### Anti-PDE5A Picoband Antibody - Protein Information

Name PDE5A ([HGNC:8784](#))

Synonyms PDE5

#### Function

Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP (PubMed: [15489334](http://www.uniprot.org/citations/15489334)), (PubMed: [9714779](http://www.uniprot.org/citations/9714779)). Specifically regulates nitric-oxide- generated cGMP (PubMed: [15489334](http://www.uniprot.org/citations/15489334)).

#### Tissue Location

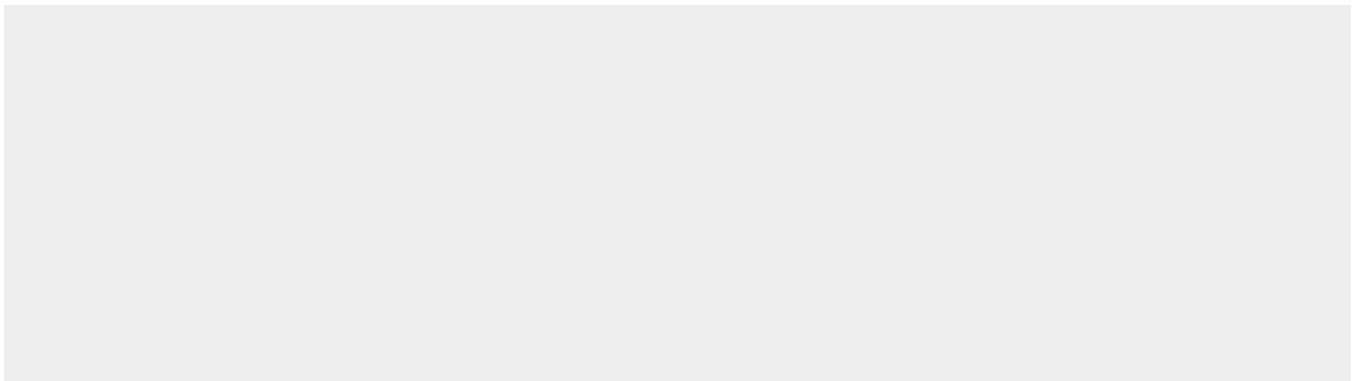
Expressed in aortic smooth muscle cells, heart, placenta, skeletal muscle and pancreas and, to a much lesser extent, in brain, liver and lung

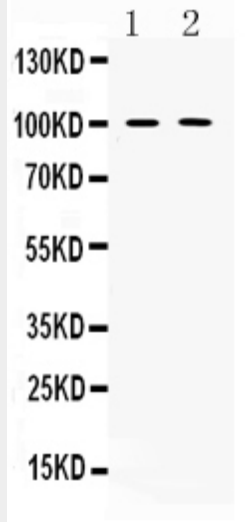
### Anti-PDE5A Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

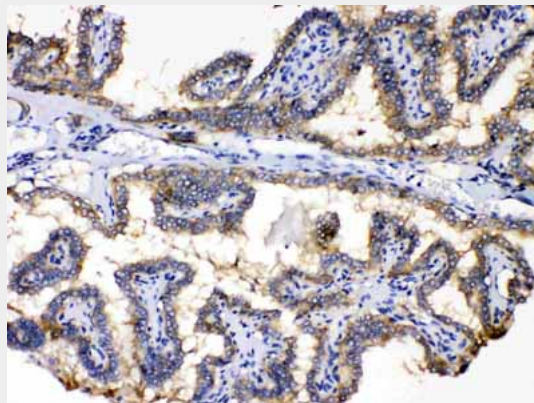
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-PDE5A Picoband Antibody - Images





Western blot analysis of PDE5A expression in rat lung extract (lane 1) and PANC-1 whole cell lysates(lane 2). PDE5A at 100KD was detected using rabbit anti- PDE5A Antigen Affinity purified polyclonal antibody (Catalog # ABO10250) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



PDE5A was detected in paraffin-embedded sections of human thyroid cancer tissues using rabbit anti- PDE5A Antigen Affinity purified polyclonal antibody (Catalog # ABO10250) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-PDE5A Picoband Antibody - Background**

cGMP-specific phosphodiesterase type 5 is an enzyme from the phosphodiesterase class. It is found in various tissues, most prominently the corpus cavernosum and the retina. It has also been recently discovered to play a vital role in the cardiovascular system. Furthermore, PDE5A also plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This PDE5A gene is mapped to 4q26.