

Anti-PDE5A Picoband Antibody

Catalog # ABO10250

Specification

Anti-PDE5A Picoband Antibody - Product Information

Application WB, IHC-P
Primary Accession O76074
Host 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>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 Na2HPO4, 0.05mg NaN3.

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 r°Constitution, 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, PubMed:9714779). Specifically regulates nitric-oxide- generated cGMP (PubMed: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

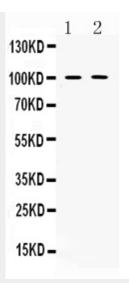
Anti-PDE5A Picoband Antibody - Protocols

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

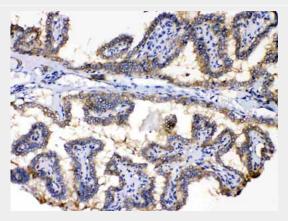
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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 \hat{l}_{4} 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 $\hat{l}^{1}/4$ 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.