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Anti-PDE5A Picoband Antibody

Catalog # ABO10250

Product Information

Application	WB, IHC-P
Primary Accession	O76074
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human, Rat
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.
Source	Eukaryota
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.

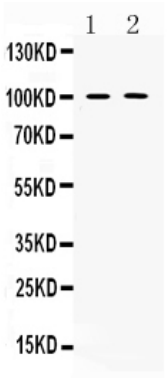
Protein Information

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

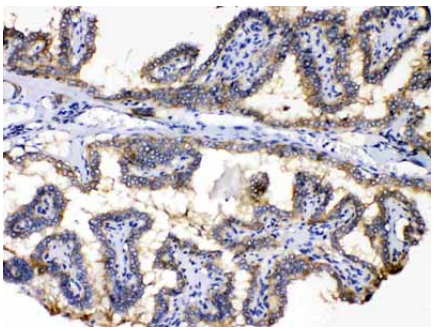
Background

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.

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 □¼g/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 □¼g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.