

Rabbit anti-Human, Rat PDE5A Polyclonal Antibody | anti-PDE5A antibody

Anti-PDE5A Antibody

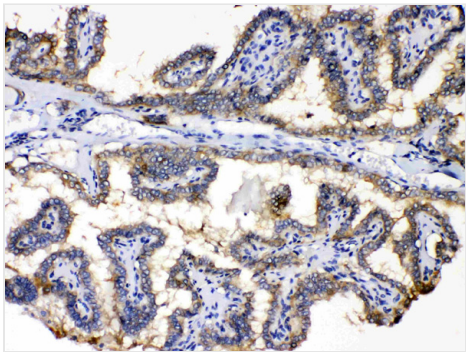
CATALOG # AAA46741	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

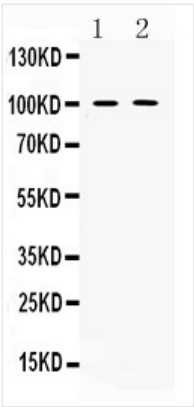
PDE5A; Polyclonal Antibody; Anti-PDE5A Antibody; CGB PDE; CGB-PDE; CGBPDE; CN5A; CN5N; PDE 5; PDE 5A; PDE5; Pde5a; PDE5A1; O76074; cGMP-specific 3'; 5'-cyclic phosphodiesterase; phosphodiesterase 5A; anti-PDE5A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized; Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	875
Applicable Applications for anti-PDE5A antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PDE5A (20-63aa QKQQQRDQDSVEAWLDDHWDFTSYFVRKATREMVNAWFAERVH), different from the related mouse sequence by eight amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohiostchemistry)
PDE5A was detected in paraffin-embedded sections of human thyroid cancer tissues using rabbit anti- PDE5A Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
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 at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-PDE5A antibody	Rabbit IgG polyclonal antibody for cGMP-specific 3', 5'-cyclic phosphodiesterase(PDE5A) detection. 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.
References	1. Gebaska, M. A., Stevenson, B. K., Hemnes, A. R., Bivalacqua, T. J., Haile, A., Hesketh, G. G., Murray, C. I., Zaiman, A. L., Halushka, M. K., Krongkaew, N., Strong, T. D., Cooke, C. A., El-Haddad, H., Tudor, R. M., Berkowitz, D. E., Champion, H. C.Phosphodiesterase-5A (PDE5A) is localized to the endothelial caveolae and modulates NOS3 activity. Cardiovasc. Res. 90: 353-363, 2011. 2. Lin, C.-S., Chow, S., Lau, A., Tu, R., Lue, T. F. Human PDE5A gene encodes three PDE5 isoforms from two alternate promoters.Int. J. Impotence Res. 14: 15-24, 2002. 3. Loughney, K., Hill, T. R., Florio, V. A., Uher, L., Rosman, G. J., Wolda, S. L., Jones, B. A., Howard, M. L., McAllister-Lucas, L. M., Sonnenburg, W. K., Francis, S. H., Corbin, J. D., Beavo, J. A., Ferguson, K. Isolation and characterization of cDNAs encodingPDE5A, a human cGMP-binding, cGMP-specific 3-prime, 5-prime-cyclic nucleotide phosphodiesterase. Gene 216: 139-147, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61744435
NCBI GeneID	8654
NCBI Accession #	NP_001074.2
NCBI GenBank Nucleotide #	NM_001083.3
UniProt Accession #	O76074; O75026; O75887; Q86UI0; Q86V66; Q9Y6Z6; A0AV69; A8K2C4
NCBI Official Full Name	cGMP-specific 3',5'-cyclic phosphodiesterase isoform 1
NCBI Official Synonym Full Names	phosphodiesterase 5A
NCBI Official Symbol	PDE5A
NCBI Official Synonym Symbols	CN5A; PDE5; CGB-PDE
NCBI Protein Information	cGMP-specific 3',5'-cyclic phosphodiesterase
UniProt Protein Name	cGMP-specific 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE5A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pde5a-antibody-immunohistochemistry-western-blot-elisa/46741>