10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDE5A Rabbit pAb

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Catalog # AP58003

Product Information

Application	WB, IHC-P, IHC-F, IF
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PDE5A
Epitope Specificity	101-200/875
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The cGMP specific phosphodiesterase type 5A (PDE5A) family is comprised of 2 genes (PDE5A and PDE5B) each with multiple splice variants generated by RNA splicing and use of alternate initiation sites. The PDE5 is highly expressed in aorta and lungs, intestine, kidney adrenal gland cerebellum and cerebrum. In cerebellum the PDE5 is highly expressed during neonatal development in Purkinge cells layer. The PDE5 is also abundant in vascular smooth muscle regulating cGMP levels and vascular smooth muscle tonicity. In corpus cavernosum inhibition of PDE5 by sildenafil corrects erectile dysfunctions. The nitric oxide donor sodium notropurside (SNP) stimulate PDE5 activity by cGMP dependent kinase phosphorylation. PDE5A1 has 875 amino acids (99.5 kDa). The amino terminal 142 amino acid of the PDE5 gene showed no sequence homology with other PDEs and also contained serine 92 that is phosphorylated by cGMP kinases.

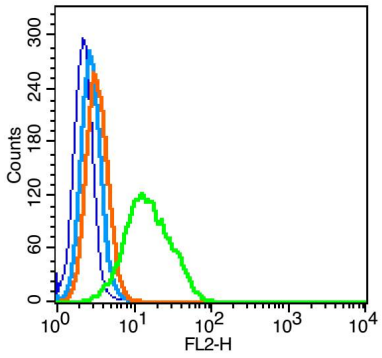
Additional Information

Other Names	cGMP-specific 3', 5'-cyclic phosphodiesterase, 3.1.4.35, cGMP-binding cGMP-specific phosphodiesterase, CGB-PDE, PDE5A, PDE5
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=0.2 □g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

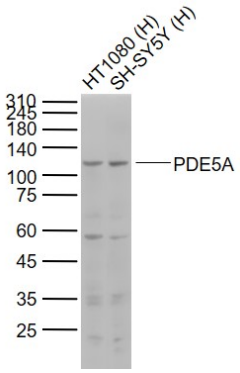
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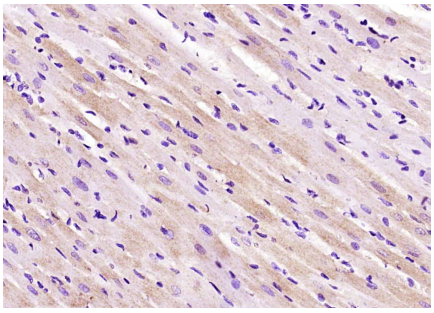
Images



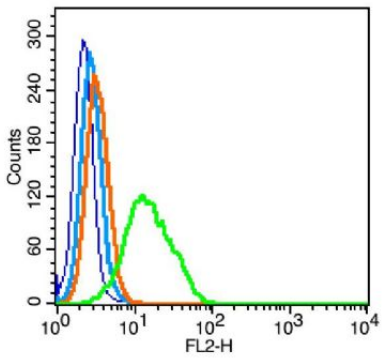
Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice.
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-PE(white blue),
Dilution: 1:200 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 0.2 µg in 100 µL1X PBS containing 0.5% BSA(green).



Sample:
Lane 1: HT1080 (Human) Cell Lysate at 30 ug
Lane 2: SH-SY5Y (Human) Cell Lysate at 30 ug
Primary: Anti-PDE5A (AP58003) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 98 kD
Observed band size: 110 kD



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PDE5A) Polyclonal Antibody, Unconjugated (AP58003) at 1400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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