

For Research Use Only

# PDE5A Recombinant monoclonal antibody

Catalog Number:85030-5-RR



## Basic Information

<b>Catalog Number:</b> 85030-5-RR	<b>GenBank Accession Number:</b> BC126233	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8654	<b>CloneNo.:</b> 242597D5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O76074	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 FC (Intra): 0.25 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphodiesterase 5A, cGMP-specific	
<b>Immunogen Catalog Number:</b> AG18779	<b>Calculated MW:</b> 875 aa, 100 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, mouse lung tissue, U-251 cells FC (Intra) : HEK-293 cells,
<b>Species Specificity:</b> human, mouse	

## Background Information

PDE5A (cGMP-binding cGMP-specific phosphodiesterase) 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. Through alternative splicing, the PDE5A gene produces three proteins (PDE5A1, PDE5A2, and PDE5A3) that differ in their N termini and range in mass from 89 to 105 kDa. (PMID: 25704994; 21215707). A second 70 kDa band was consistently observed in heart tissue that either reflected a splice variant or proteolytic fragment of PDE5A. (PMID: 15576651).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

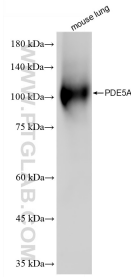
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

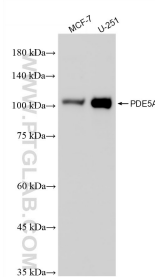
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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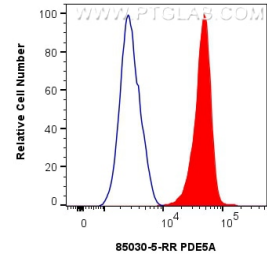
## Selected Validation Data



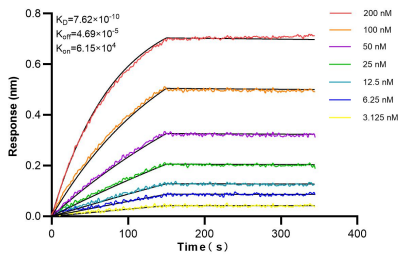
mouse lung tissue were subjected to SDS PAGE followed by western blot with 85030-5-RR (PDE5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 85030-5-RR (PDE5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.25 ug Pde5a Recombinant Antibody (85030-5-RR, Clone:242597D5) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 85030-5-RR against Human PDE5A were performed. The affinity constant is 0.762 nM.