

For Research Use Only

PDE5A Recombinant monoclonal antibody

Catalog Number: 85030-5-RR



Basic Information

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

Applications

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

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

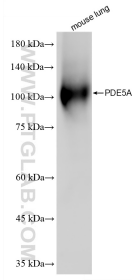
T: 4006900926

E: Proteintech-CN@ptglab.com

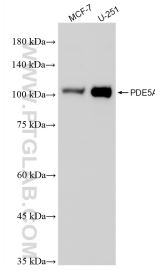
W: ptgcn.com

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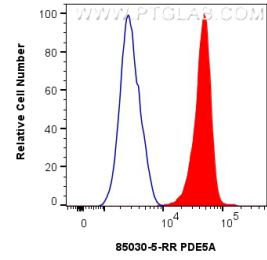
Selected Validation Data



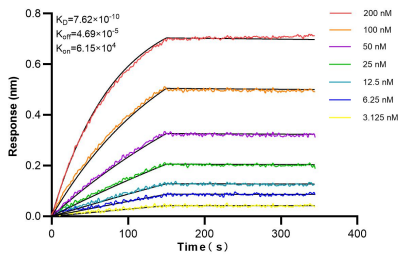
mouse lung tissue were subjected to SDS PAGE followed by western blot with 85030-5-RR (PDE5A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.



1×10^6 HEK-293 cells were intracellularly stained with 0.25 μ g Pde5a Recombinant Antibody (85030-5-RR, Clone:242597D5) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 μ g 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.