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e at -20C	PDE5 (P434) Antibody			
Store at -		Orders:	877-616-CELL (2355) orders@cellsignal.com	
35		Support:	877-678-TECH (8324)	
#3585		Web:	info@cellsignal.com cellsignal.com	
#	3	Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 100	Source: Rabbit	<b>UniProt ID:</b> #O76074	Entrez-Gene Id: 8654		
Product Usage Information	We	plication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		PDE5 (P434) Antibody detects endogenous levels of total PDE5 protein. The antibody cross-reacts with a 35-40 kDa protein of unknown origin.						
Species predicted to react based on 100% sequence homology:		ıkey						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to central residues of human PDE5.						
Background		The superfamily of phosphodiesterases (PDEs) catalyses the hydrolysis of 3',5'-cyclic nucleotides into the corresponding nucleotide 5'-monophosphates. PDE5 is a cGMP-specific enzyme that contains two cGMP binding sites in its amino-terminal regulatory domain (1). Elevation of cGMP levels causes activation of PKG, which phosphorylates PDE5 at Ser102 (2). Phosphorylation of PDE5 stimulates its enzymatic activity and enhances cGMP binding affinity in the regulatory domain, leading to a decrease in intracellular cGMP levels (3,4).						
Background Refer	2. T 3. R	<ol> <li>Corbin, J.D. and Francis, S.H. (1999) <i>J. Biol. Chem.</i> 274, 13729-13732.</li> <li>Thomas, L.K. et al. (1990) <i>J. Biol. Chem.</i> 265, 14971-14978.</li> <li>Rybalkin, S.D. et al. (2002) <i>J. Biol. Chem.</i> 277, 3310-3317.</li> <li>Francis, S.H. et al. (2002) <i>J. Biol. Chem.</i> 277, 47581-47587.</li> </ol>						
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	Western Blotting IP	: Immunoprecipitat	ion				
Cross-Reactivity F	<b>X</b> : Xe	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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## PDE5 (P434) Antibody (#3585) Datasheet Without Images Cell Signaling Technology

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