110 1101						
e at -20C	PDE5 (P434) Antibody		CHNOLOGY*			
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com			
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<i><b>‡</b>3585</i>		Web:	info@cellsignal.com cellsignal.com			
£#		3 Trask Lane   Danvers   Mass	achusetts   01923   USA			

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

Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O76074	Entrez-Gene Id 8654		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<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		Monkey						
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 References		1. Corbin, J.D. and Francis, S.H. (1999) <i>J. Biol. Chem.</i> 274, 13729-13732. 2. Thomas, L.K. et al. (1990) <i>J. Biol. Chem.</i> 265, 14971-14978. 3. Rybalkin, S.D. et al. (2002) <i>J. Biol. Chem.</i> 277, 3310-3317. 4. Francis, S.H. et al. (2002) <i>J. Biol. Chem.</i> 277, 47581-47587.						
Species Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key		H: Human						
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