.2096 Store at -200

PDE4B (D7R1Y) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #Q07343	Entrez-Gene Id 5142	
Product Usage Information	Application			Dilution			
	We	estern Blotting			1:1000		
	Im	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensi		E4B (D7R1Y) Rabbit cross-react with PD	•	es endogenous levels of total PDE4B protein. This antibody does			
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu61 of human PDE4B protein.					
Background	into (PE cell infla infla hyd gro	Enzymes of the phosphodiesterase (PDE) superfamily catalyze the hydrolysis of 3',5'-cyclic nucleotides into the corresponding nucleotide 5'-monophosphates. The PDE superfamily includes 11 subfamilies (PDE1-PDE11) in mammals (1). These enzymes function as important positive and negative regulators of cellular response, including regulation of insulin secretion, heart function, erectile function, and inflammation (2-5). The cAMP-specific phosphodiesterase 4B (PDE4B, DPDE4) is important for the inflammatory response to lipopolysaccharide in monocytes (6). PDE4B plays an important role in the hydrolysis and inactivation of the ubiquitous second messenger cAMP that regulates lymphocyte cell growth and apoptosis (7). Research studies indicate that PDE4B is also involved in psychiatric disorders, including schizophrenia, autism, and depression (8-10).					
Background Refer	2. D 3. F 4. F	Dyachok, O. et al. (20 ischmeister, R. et al	006) <i>Nature</i> 439, . (2006) <i>Circ Res</i> tis, J.B. (2003) <i>A</i>	s 99, 816-28. m J Cardiol 92, 9M-18N			

- Smith, S.J. et al. (2004) Mol Pharmacol 66, 1679-89.
- 6. Jin, S.L. and Conti, M. (2002) Proc Natl Acad Sci U S A 99, 7628-33.
- 7. Conti, M. et al. (2003) J Biol Chem 278, 5493-6.
- 8. Fatemi, S.H. et al. (2008) Schizophr Res 101, 36-49.
- 9. Braun, N.N. et al. (2007) Neuroreport 18, 1841-4.
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Species Reactivity

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: Immunoprecipitation

Cross-Reactivity Key

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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Limited Uses

PDE4B (D7R1Y) Rabbit mAb (#72096) Datasheet Without Images Cell Signaling Technology

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