5-HTR4 (D8O5K) Rabbit mAb 06921



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40-140	Source/Isotype: Rabbit IgG	UniProt ID: #Q13639	Entrez-Gene Id: 3360		
Product Usage Information	1	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	5-HTR4 (D8O5K) Rabbit mAb recognizes endogenous levels of total 5-HTR4 protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala361 of human 5-HTR4 protein.						
Background		Serotonin (5-hydroxytryptamine, 5-HT) is a central nervous system monoamine implicated in a number of physiological functions, including sleep, mood, appetite, anxiety, and neurovegetative control (1). Serotonin acts through the activation of G protein receptors called serotonin receptors (5-HTRs). Seven 5-HTR subclasses (5-HTR1-7) have been described to date (2). Serotonin receptor 4 (5-HTR4) couples to Gas (3), with stimulation of the receptor leading to adenylyl cyclase activation, elevation of cyclic AMP levels and downstream PKA activation (4). The corresponding <i>HTR4</i> gene exhibits a complex structure, which includes a large number of splice variants that seem to share the same pharmacological properties (5). 5-HTR4 is one of several receptors implicated in cognition, depression, and the development of Alzheimer's disease (6-8).						
Background Re	eferences	 Jacobs, B.L. and Azmitia, E.C. (1992) <i>Physiol Rev</i> 72, 165-229. Hoyer, D. et al. (1994) <i>Pharmacol Rev</i> 46, 157-203. Bockaert, J. et al. (2006) <i>Cell Tissue Res</i> 326, 553-72. Nichols, D.E. and Nichols, C.D. (2008) <i>Chem Rev</i> 108, 1614-41. Hannon, J. and Hoyer, D. (2008) <i>Behav Brain Res</i> 195, 198-213. King, M.V. et al. (2008) <i>Trends Pharmacol Sci</i> 29, 482-92. Lucas, G. et al. (2007) <i>Neuron</i> 55, 712-25. Cho, S. and Hu, Y. (2007) <i>Exp Neurol</i> 203, 274-8. 						
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer		/PORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 3S, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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