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## 5-HTR4 (D8O5K) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 40-140	Source/Isotype: Rabbit IgG	UniProt ID: #Q13639	Entrez-Gene Id: 3360
Product Usage Information				Dilution 1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.				
Specificity / Sensitivity		5-HTR4 (D8O5K) Rabbit mAb recognizes endogenous levels of total 5-HTR4 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala361 of human 5-HTR4 protein.				
Background	phys acts subo (3), and inclu HTF	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 Refe	2. H 3. B 4. N 5. H 6. K 7. Lu	Dacobs, 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 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

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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