GPR50 (D1D6I) Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70-75	Source/Isotype: Rabbit IgG	UniProt ID: #Q13585	Entrez-Gene Id: 9248		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:50 1:400		
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. <i>Do not aliquot the antibody.</i>						
Specificity/Sen	sitivity	GPR50 (D1D6I) Rabbit mAb recognizes endogenous levels of total GPR50 protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro420 of human GPR50 protein.						
Background		G-protein coupled receptor 50 (GPR50) is an orphan G-protein coupled receptor with high sequence homology to the melatonin receptors MT1 and MT2. While classified as a member of the melatonin receptor family and also known as melatonin-related receptor, GPR50 does not bind melatonin (1). GPR50 forms heterodimers with MT1 and MT2 and acts as a negative regulator of MT1 agonist binding and G protein coupling; inhibition of melatonin receptor activity is dependent on the long, proline-rich carboxy terminal tail of GPR50 (2). On a physiological level, GPR50 is involved in the regulation of adaptive thermoregulation in mammals and deletion of <i>GPR50</i> in mice produces a profound effect on the response to fasting and facilitates entry into torpor (3). Polymorphisms in the corresponding <i>GPR50</i> gene are associated with bipolar affective disorder and major depressive disorder in women, indicating that variation in <i>GPR50</i> may be an important gender-specific risk factor for certain mental disorders (4,5).						
Background Re	eferences	1. Reppert, S.M. et al. (1996) <i>FEBS Lett</i> 386, 219-24. 2. Levoye, A. et al. (2006) <i>EMBO J</i> 25, 3012-23. 3. Bechtold, D.A. et al. (2012) <i>Curr Biol</i> 22, 70-7. 4. Macintyre, D.J. et al. (2010) <i>Neurosci Lett</i> 475, 169-73. 5. Thomson, P.A. et al. (2005) <i>Mol Psychiatry</i> 10, 470-8.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human						
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