

64407

GPR37 (D4C8H) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40-250	Source/Isotype: Rabbit IgG	UniProt ID: #O15354	Entrez-Gene Id: 2861
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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/Sensitivity		GPR37 (D4C8H) Rabbit mAb recognizes endogenous levels of total GPR37 protein. This product does not cross-react with GPR37L1.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu590 of human GPR37 protein.				
Background		GPR37 is a G protein-coupled receptor (GPCR) that was originally identified as an orphan receptor highly expressed in the brain and testis (1). It shares significant homology with the receptors of endothelin and bombesin peptides (1). Neuropeptide head activator from the invertebrate Hydra was identified as a high-affinity ligand of GPR37 (2), however, to date, no mammalian ortholog of this peptide that could represent an endogenous GPR37 ligand has been identified. Recently, GPR37 was deorphanized as the receptor for the endogenous peptides prosaptide and prosaposin (3). GPR37 is a substrate of the E3 ubiquitin ligase parkin, and is often referred to as "parkin-associated endothelin-like receptor," or "Pael-R" (4). GPR37 has been implicated in the pathogenesis of Parkinson's Disease as it aggregates in the substantia nigra of some PD patients (4,5). Interestingly, prosaposin exerts neuroprotective, neurotrophic, and gliotrophic actions (6), and GPR37 was identified as a negative regulator of oligodendrocyte differentiation and myelination (7), suggesting that it could represent a potential target for demyelinating pathologies.				
Background References		 Marazziti, D. et al. (1998) Genomics 53, 315-24. Rezgaoui, M. et al. (2006) J Cell Sci 119, 542-9. Meyer, R.C. et al. (2013) Proc Natl Acad Sci U S A 110, 9529-34. Imai, Y. et al. (2001) Cell 105, 891-902. Murakami, T. et al. (2004) Ann Neurol 55, 439-42. Misasi, R. et al. (2009) Cent Nerv Syst Agents Med Chem 9, 119-31. Yang, H.J. et al. (2016) Nat Commun 7, 10884. 				

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 W

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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