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Patents

mGluR2 (D7D8M) Rabbit mAb



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Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 100, >200	Source/Isotype: Rabbit IgG	UniProt ID: #Q14416	Entrez-Gene Id: 2912	
Product Usage Information	Ap	Application			Dilution		
	We	estern Blotting		1:1000			
	Imi	Immunoprecipitation			1:50		
	Imi	Immunofluorescence (Frozen)			1:200		
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 / Sensit		mGluR2 (D7D8M) Rabbit mAb recognizes endogenous levels of total mGluR2 protein. This antibody may cross-react with mGluR3.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the extracellular loops of mouse mGluR2 protein.					
Background	neu not mG G p mG inte	Metabotropic glutamate receptor 2 (mGluR2) is a class C G protein-coupled receptor for the neurotransmitter glutamate in the mammalian brain. Unlike ionotropic receptors, metabotropic receptors do not form an ion channel pore themselves but are indirectly linked to ion channels (1). While mGluR1 and mGluR5 activate phospholipase C, mGluR2, mGluR3, mGluR4, and mGluR6 are coupled to the inhibitory G protein Gα(i/o) and inhibit adenylyl cyclase (AC) activity (1). Research studies have suggested that mGluR2/3 receptors may be potential targets for the treatment of Schizophrenia (2). Furthermore, mGluR2 interacts with the 5HT2A serotonin receptor to form a hetero-complex in the brain. This complex is a potential pharmacological target for hallucinogenic drugs (3,4).					
Background Refer	2. P 3. G	 Pin, J.P. et al. (1994) EMBO J 13, 342-8. Patil, S.T. et al. (2007) Nat Med 13, 1102-7. González-Maeso, J. et al. (2008) Nature 452, 93-7. González-Maeso, J. and Sealfon, S.C. (2009) Trends Neurosci 32, 225-32. 					

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 IF-F: Immunofluorescence (Frozen)

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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