

mGluR2 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	M R	Endogenous	100, >200	Rabbit	#Q14BI2	108068
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
	Immunoprecipitation					1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity	mGluR2 recognizes endogenous levels of total mGluR2 protein. This antibody does not cross-react with mGluR3.					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala839 of mouse mGluR2 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	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 References	<ol style="list-style-type: none"> 1. Pin, J.P. et al. (1994) <i>EMBO J</i> 13, 342-8. 2. Patil, S.T. et al. (2007) <i>Nat Med</i> 13, 1102-7. 3. González-Maeso, J. et al. (2008) <i>Nature</i> 452, 93-7. 4. González-Maeso, J. and Sealfon, S.C. (2009) <i>Trends Neurosci</i> 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	M: Mouse R: Rat
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