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**Alexa488-labeled Antibody to Metabotropic Glutamate Receptor 2 (mGluR2)**  
**MOUSE MONOCLONAL**

**Catalog Number:** FL-N32  
**Quantity:** 100 micrograms  
**Format:** 50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; no preservative.  
**Host:** Mouse  
**Clone:** mG2Na-s  
**Immunogen:** GST-fusion with a 47-amino acid sequence of mGluR2

**Background:**

The metabotropic glutamate receptors (mGluR) play diverse roles in brain function and pathology. Eight mGluR's have been cloned thus far, they have been separated into three subgroups according to sequence homology, intracellular second messengers, and ligand selectivities. mGluR2 and mGluR3 are the mGluR's that react most potently with trans-1-aminocyclopentane-1,3-dicarboxylate.

**Specificity and Preparation:**

This antibody recognizes the metabotropic glutamate receptor 2, but not metabotropic glutamate receptor 3, in rat and mouse. The antibody was made against a GST-fusion with a 47-amino acid sequence against the N-terminal portion of mGluR2. It has been conjugated to the fluorescent dye Alexa488.

**Usage and Storage:**

Applications include immunoblotting (western, 1  $\mu$ g/ml)<sup>1</sup>, immunohistochemistry (1  $\mu$ g/ml)<sup>1</sup>, immunostaining (1  $\mu$ g/ml)<sup>1</sup>, and immunofluorescence (1  $\mu$ g/ml)<sup>2</sup>. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

**References:**

1. Neki A, Ohishi H, Kaneko T, Shigemoto R, Nakanishi S, Mizuno N (1996) Pre- and postsynaptic localization of a metabotropic glutamate receptor, mGluR2, in the rat brain: an immunohistochemical study with a monoclonal antibody. *Neurosci Lett* 202(3):197-200.
2. Neki A, Ohishi H, Kaneko T, Shigemoto R, Nakanishi S, Mizuno N (1996) Metabotropic glutamate receptors mGluR2 and mGluR5 are expressed in two non-overlapping populations of Golgi cells in the rat cerebellum. *Neuroscience* 75(3):815-826.

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