

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

Catalog Number: AB-N32-FLA
Quantity: 50 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 & 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: Applications include immunoblotting (western, 1 μ g/ml)¹, immunohistochemistry (1 μ g/ml)¹, immunostaining (1 μ g/ml)¹, and immunofluorescence (1 μ g/ml)².

Storage: Gently spin down material 5-10 seconds in a microfuge before use. The material can be handled safely using normal laboratory precautions. Store the antibody at -20°C for up to one year.



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Selected 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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