

Datasheet for ABIN2689843
anti-mGluR1 alpha antibody



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Overview

Quantity:	0.1 mg
Target:	mGluR1 alpha (mGluR1a)
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This mGluR1 alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Recombinant Rat mGluR1 Fusion Protein
Clone:	G209
Isotype:	IgG1
Characteristics:	Glutamate is a major excitatory neurotransmitter in mammalian brain. Glutamatergic neurotransmission is mediated by a family of glutamate receptors that can be grouped into two classes, ionotropic (GluR) and metabotropic (mGluR) receptors. The metabotropic glutamate receptors consist of at least seven subtypes that can be divided into three groups on the basis of their sequence similarities, intracellular second messengers and agonist selectivities. These groups are: 1) mGluR1 and mGluR5, 2) mGluR2 and mGluR3, and 3) mGluR4, mGluR6 and mGluR7. mGluR1 and mGluR5 are coupled to the inositol phosphate/Ca ²⁺ signal transduction

Product Details

pathway, whereas the other five receptors are linked to the inhibition of the cAMP cascade. mRNA analysis shows that the seven receptors have different expression patterns in the central nervous system. For example, the highest level of mGluR1 mRNA expression is found in the cerebellar Purkinje cells. mGluR7 mRNA is moderately expressed in these cells, whereas the mRNA of the other five mGluRs is barely detectable. Three splice variants have been described for mGluR1: mGluR1 α (145 kDa), mGluR1 β (97 kDa), and mGluR1c (97 kDa).

BD Pharmingen™ Purified Mouse Anti-Rat mGluR1 α - Purified - Clone G209-2048 - Isotype Mouse IgG1 - Reactivity Rat - 0.1 mg

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target: mGluR1 alpha (mGluR1a)

Alternative Name: mGluR1alpha ([mGluR1a Products](#))

Molecular Weight: 133 kDa

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: Aqueous buffered solution containing ≤ 0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store undiluted at 4°C.

Publications

- Product cited in: Shigemoto, Abe, Nomura, Nakanishi, Hirano: "Antibodies inactivating mGluR1 metabotropic glutamate receptor block long-term depression in cultured Purkinje cells." in: **Neuron**, Vol. 12, Issue 6, pp. 1245-55, (1994) ([PubMed](#)).
- Masu, Tanabe, Tsuchida, Shigemoto, Nakanishi: "Sequence and expression of a metabotropic glutamate receptor." in: **Nature**, Vol. 349, Issue 6312, pp. 760-5, (1991) ([PubMed](#)).