



Mouse anti-Human GRM7 monoclonal antibody, clone 2I6 (CABT-B10367)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Immunogen | GRM7 (NP_000835, 431 a.a. ~ 521 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Isotype | IgG2a |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | 2I6 |
| Conjugate | Unconjugated |
| Applications | WB,sELISA,ELISA |
| Sequence Similarities | ADYRGVCPPEMEQAGGKKLLKYIRNVNFNGSAGTPVMFNKNGDAPGRYDIFQYQTTNTSNP GYRLIGQWTDDELQLNIEDMQWGKGVREIPA* |
| Format | Liquid |
| Size | 50 µg |
| Buffer | In 1x PBS, pH 7.2 |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

BACKGROUND

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| Introduction | L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it activates both ionotropic and metabotropic glutamate receptors. Glutamatergic |
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neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors that have been divided into three groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5, and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3, while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]

Keywords

GRM7; glutamate receptor, metabotropic 7; GLUR7; MGLU7; GPRC1G; MGLUR7; PPP1R87; metabotropic glutamate receptor 7; protein phosphatase 1, regulatory subunit 87;

GENE INFORMATION

Entrez Gene ID

[2917](#)

UniProt ID

[Q59G95](#)

Pathway

Class C/3 (Metabotropic glutamate/pheromone receptors), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class C Metabotropic glutamate, pheromone, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem

Function

G-protein coupled receptor activity; PDZ domain binding; adenylate cyclase inhibitor activity; calcium channel regulator activity; calcium ion binding; glutamate binding; glutamate receptor activity; group III metabotropic glutamate receptor activity; receptor activity; serine binding; voltage-gated calcium channel activity
