

## Mouse Monoclonal Antibody to GRM7

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| <b>Catalogue Number</b>        | sAP-1572   |
| <b>Target Molecule</b>         | <p><b>Name:</b> GRM7</p> <p><b>Aliases:</b> GLUR7; MGLU7; GPRC1G; MGLUR7; PPP1R87</p> <p><b>MW:</b> 102.3kDa</p> <p><b>Entrez Gene ID:</b> 2917</p>  |
| <b>Description</b>             | L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it activates both ionotropic and metabotropic glutamate receptors. Glutamatergic 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 |
| <b>Immunogen</b>               | Purified recombinant fragment of human GRM7 (AA: 454-590) expressed in E. Coli.  |
| <b>Reactive Species</b>        | Human;   |
| <b>Clone</b>                   | MM7G8D3  |
| <b>Size and Concentration</b>  | 100µg/1mg/ml   |
| <b>Supplied as</b>             | Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide  |
| <b>Reconstitution/Storages</b> | Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage   |
| <b>Applications</b>            | ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400; IHC: N to A  |
| <b>Shipping</b>                | Regular FEDEX overnight shipment (ambient temperature)   |
| <b>Reference</b>               | 1.Psychiatr Genet. 2014 Dec;24(6):281-2.2.Life Sci. 2013 Feb 7;92(2):149-53.   |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**