Anti-GRM5 (C-terminal) polyclonal antibody (DPABH-22190)

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

PRODUCT INFORMATION

**Antigen Description**
Glutamate receptors constitute the principal excitatory neurotransmitter receptors in brain. Two classes of glutamate receptors exist: Ionotropic receptors, and metabotropic receptors (mGluRs). Metabotropic Glutamate Receptor 5b (GRM5) activity is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. The metabotropic glutamate receptor type 5 (mGlu5) is expressed in two splice variants, mGlu5a and mGlu5b, which differ in that mGlu5b has a 33-amino acid insert in the intracellular C-terminal domain. This receptor subtype is highly regulated, with higher levels found in developing animals.

**Immunogen**
Synthetic peptide derived from the C terminus of Human Metabotropic Glutamate Receptor 5b. This sequence is identical to Human and Rat.

**Isotype**
IgG

**Source/Host**
Rabbit

**Species Reactivity**
Rat, Human

**Purification**
Immunogen affinity purified

**Conjugate**
Unconjugated

**Applications**
WB, IP, ELISA, IHC-P

**Format**
Liquid

**Size**
100 μg

**Buffer**
pH: 7.20; Constituent: 99% PBS. Note: antibody stabilizer(0.05% PROCLIN300, 10MG/ML BSA)

**Preservative**
None

**Storage**
Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION
<table>
<thead>
<tr>
<th><strong>Gene Name</strong></th>
<th><strong>GRM5 glutamate receptor, metabotropic 6 [ Homo sapiens ]</strong></th>
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<tbody>
<tr>
<td><strong>Official Symbol</strong></td>
<td>GRM5</td>
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<tr>
<td><strong>Synonyms</strong></td>
<td>GRM5; glutamate receptor, metabotropic 5; mGlu5; GPRC1E; MGLUR5; PPP1R86; metabotropic glutamate receptor 5; protein phosphatase 1, regulatory subunit 86;</td>
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<tr>
<td><strong>Entrez Gene ID</strong></td>
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<tr>
<td><strong>Protein Refseq</strong></td>
<td>NP_000833.1</td>
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<td><strong>UniProt ID</strong></td>
<td>A8K5P7</td>
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<tr>
<td><strong>Pathway</strong></td>
<td>Calcium signaling pathway; Class C/3 (Metabotropic glutamate/pheromone receptors); GPCR downstream signaling; GPCRs, Class C Metabotropic glutamate, pheromone</td>
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<tr>
<td><strong>Function</strong></td>
<td>A2A adenosine receptor binding; G-protein coupled receptor activity; glutamate receptor activity;</td>
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