

## Rabbit GRM5 / MGLUR5 Polyclonal Antibody | anti-GRM5 antibody

Rabbit Polyclonal to Human GRM5 / MGLUR5

| CATALOG # | HOST   | REACTIVITY                                                                                                                                                            | APPLICATIONS         |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| AAA50766  | Rabbit | Bat, Gibbon, Bovine, Chicken, Dog, Hamster, Horse, Human, Monkey, Mouse, Pig, Rabbit, Rat<br>Predicted Reactivity: Xenopus (at least 90% immunogen sequence identity) | Immunohistochemistry |

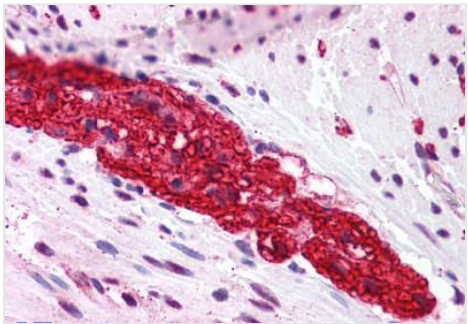
### PRODUCT SYNONYMS

GRM5 / MGLUR5; Polyclonal Antibody; Rabbit Polyclonal to Human GRM5 / MGLUR5; Anti-GRM5 / MGLUR5 Antibody (N-Terminus) IHC-plus; GRM5; GPRC1E; MGLUR5; Mglur5b; MGlu5; Human GRM5; anti-GRM5 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                      |
| Reactivity                                     | Bat, Gibbon, Bovine, Chicken, Dog, Hamster, Horse, Human, Monkey, Mouse, Pig, Rabbit, Rat<br><b>Predicted Reactivity:</b> Xenopus (at least 90% immunogen sequence identity)                                                                                                                                                                                                                                |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity                                    | Human GRM5 / MGLUR5. BLAST analysis of the peptide immunogen showed no homology with other human proteins.                                                                                                                                                                                                                                                                                                  |
| Purity/Purification                            | Immunoaffinity Purified                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                    | PBS, 0.1% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration                                  | 1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                | 1180                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-GRM5 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                  |
| Target Species                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen Description                          | Synthetic 17 amino acid peptide from N-terminal extracellular domain of human GRM5 / MGLUR5.                                                                                                                                                                                                                                                                                                                |
| Immunogen Type                                 | Synthetic peptide                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen                                      | GRM5 / MGLUR5 antibody was raised against synthetic 17 amino acid peptide from N-terminal extracellular domain of human GRM5 / MGLUR5. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Mouse, Rat, Dog, Bat, Bovine, Hamster, Horse, Rabbit, Pig, Turkey, Zebra finch, Chicken, Platypus, Lizard (100%); Xenopus (94%); Opossum, Pufferfish (88%); Zebrafish (82%). |
| Antigen Modification                           | N-Terminus                                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                        | Long term: -70 degree C; Short term: +4 degree C                                                                                                                                                                                                                                                                                                                                                            |

IMAGES



IHC (Immunohistochemistry)  
Anti-GRM5 / MGLUR5 antibody IHC of human colon, myenteric plexus. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GRM5 antibody | Group I of the Metabotropic Glutamate Receptors includes GRM1 and GRM5, receptors that have been shown to activate phospholipase C. Alternative splice variants of GRM5 have been described, but their full-length nature has not been determined. Inflammation results in the activation of mGluR1 and mGluR5 in dorsal horn neurons of the spinal cord, leading to extracellular signal-regulated kinase (ERK) activation, which is required for nociceptive plasticity and enhanced pain. |
| Product Categories/Family for anti-GRM5 antibody   | Family: GPCR; Subfamily: Metabotropic glutamate                                                                                                                                                                                                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| NCBI GI #                        | 4504143                                                                         |
| NCBI GeneID                      | 2915                                                                            |
| NCBI Accession #                 | NP_000833.1                                                                     |
| NCBI GenBank Nucleotide #        | NM_000842.4                                                                     |
| UniProt Accession #              | P41594; Q6J164                                                                  |
| Molecular Weight                 | 105,432 Da                                                                      |
| NCBI Official Full Name          | metabotropic glutamate receptor 5 isoform b                                     |
| NCBI Official Synonym Full Names | glutamate receptor, metabotropic 5                                              |
| NCBI Official Symbol             | GRM5                                                                            |
| NCBI Official Synonym Symbols    | mGlu5; GPRC1E; MGLUR5; PPP1R86                                                  |
| NCBI Protein Information         | metabotropic glutamate receptor 5; protein phosphatase 1, regulatory subunit 86 |
| UniProt Protein Name             | Metabotropic glutamate receptor 5                                               |
| UniProt Gene Name                | GRM5                                                                            |
| UniProt Synonym Gene Names       | GPRC1E; MGLUR5; mGluR5                                                          |
| UniProt Entry Name               | GRM5_HUMAN                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.