

## Rabbit GRM5 Polyclonal Antibody | anti-GRM5 antibody

GRM5 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                 |
|-----------|--------|-------------------|--------------------------------------------------------------|
| AAA321902 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

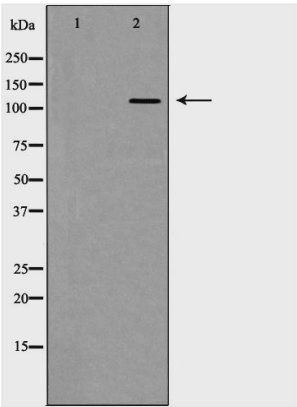
### PRODUCT SYNONYMS

GRM5; Polyclonal Antibody; GRM5 Antibody; Glutamate receptor metabotropic 5; GPRC1E; Grm5; GRM5\_HUMAN; Metabotropic glutamate receptor 5; Metabotropic glutamate receptor 5 variant F; Metabotropic glutamate receptor 5 variant G; Metabotropic glutamate receptor 5 variant H; mGlu5; mGluR5; PPP1R86; Protein phosphatase 1 regulatory subunit 86; anti-GRM5 antibody

### PRODUCT SPECIFICATIONS

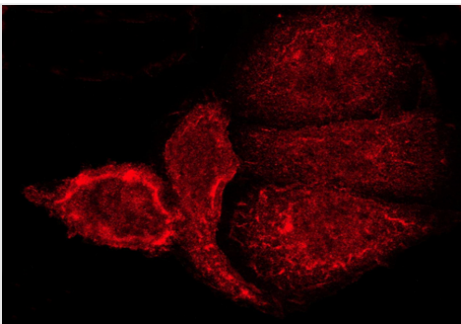
|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                             |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | GRM5 antibody detects endogenous levels of total GRM5                                         |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 1180                                                                                          |
| Applicable Applications for anti-GRM5 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                  |
| Immunogen                                      | A synthesized peptide derived from human GRM5                                                 |
| Subcellular Location                           | Cell Membrane                                                                                 |
| Predicted Cross Reactivity                     | <b>Pig, Horse, Dog, Chicken</b>                                                               |
| Similarity                                     | Pig (100%), Horse (100%), Dog (100%), Chicken (100%)                                          |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

IMAGES



WB (Western Blot)

Western blot analysis of GRM5 expression in HT-29 cells. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321902 staining A-431 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GRM5 antibody

Description: Glutamate receptors constitute the principal excitatory neurotransmitter receptors in brain. Two classes of glutamate receptors exist: Ionotropic receptors, and metabotropic receptors (mGluRs). Ionotropic glutamate receptors are oligomeric complexes of various subunits (GluR1 7, NMDA1 3, KAI 2) which comprise ligand gated calcium channels.

Function: G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity.

Subunit Structure: The PPXXF motif binds HOMER1, HOMER2 and HOMER3. Interacts with SIAH1, RYR1, RYR2, ITPR1, SHANK1, SHANK3 and GRASP. Interacts with NCDN (By similarity). Isoform 2 interacts with NECAB2 (PubMed:19694902).

Similarity: Belongs to the G-protein coupled receptor 3 family.

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                 | Observed: 130 kDa<br>Predicted: 133 kDa     |
| NCBI Official Full Name          | metabotropic glutamate receptor 5 isoform b |
| NCBI Official Synonym Full Names | glutamate metabotropic receptor 5           |
| NCBI Official Symbol             | GRM5                                        |
| NCBI Official Synonym Symbols    | mGlu5; GPRC1E; MGLUR5; PPP1R86              |
| NCBI Protein Information         | metabotropic glutamate receptor 5           |
| UniProt Protein Name             | Metabotropic glutamate receptor 5           |
| UniProt Gene Name                | GRM5                                        |
| UniProt Synonym Gene Names       | GPRC1E; MGLUR5; mGluR5                      |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/grm5-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321902>