

## Product datasheet for **TA321216**

### Metabotropic Glutamate Receptor 4 (GRM4) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human breast cancer Predicted cell location: cytoplasm, Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 58-70 amino acids of human glutamate receptor, metabotropic 4
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glutamate metabotropic receptor 4
Database Link:	<a href="#">NP_000832</a> <a href="#">Entrez Gene 24417 Rat</a> <a href="#">Entrez Gene 268934 Mouse</a> <a href="#">Entrez Gene 2914 Human</a> <a href="#">Q14833</a>



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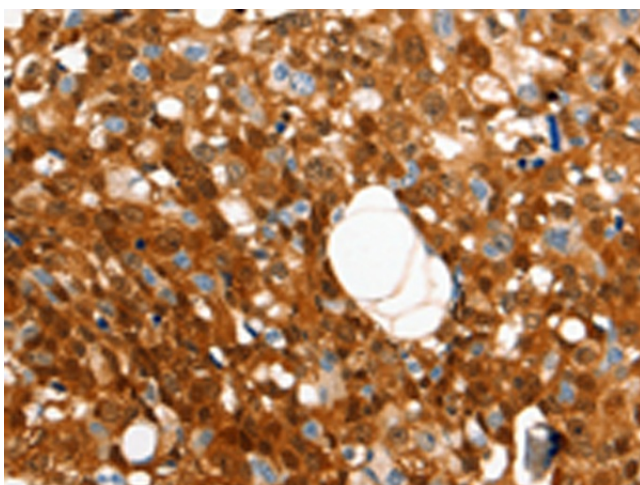
**Background:** L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors; that have been divided into 3 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. Several transcript variants encoding different isoforms have been found for this gene.

**Synonyms:** GPRC1D; mGlu4; MGLUR4

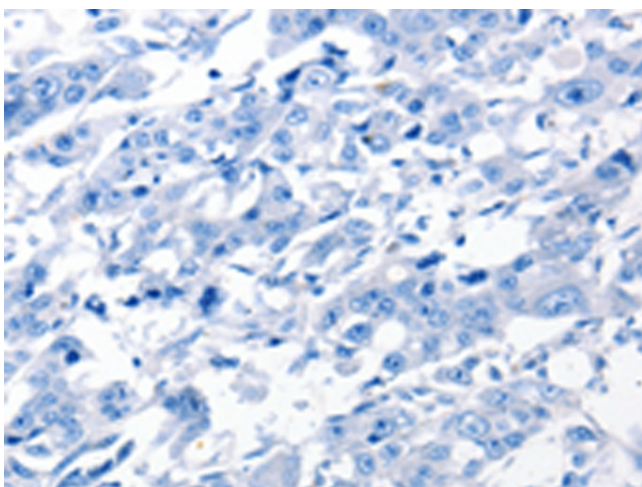
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction, Taste transduction

**Product images:**



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA321216 (GRM4 Antibody) at dilution 1/15 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA321216 (GRM4 Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification: ×200)