

Product datasheet for **AP55077SU-N**

Metabotropic Glutamate Receptor 4 (GRM4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA. Western Blot.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptides derived from internal domain of Human mGluR4 protein
Specificity:	Reacts with 102 kDa Human protein. May cross-react with Rat, Mouse and other species due to sequence homology.
Formulation:	State: Serum State: Lyophilized powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store the antibody at -20°C. Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glutamate metabotropic receptor 4
Database Link:	Entrez Gene 2914 Human Q14833



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Background:

The Metabotropic Glutamate Receptor mGluR4/GRM4 binds L-glutamate, the major excitatory neurotransmitter in the central nervous system, which 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 III includes GRM4, GRM6, GRM7, and GRM8 receptors that are linked to the inhibition of the cyclic AMP signaling cascade. Two protein isoforms have been reported in rat (mGluR4a 912 aa; mGluRb 983 aa), which differ at the C-terminus. GRM4 has been reported in various regions of the brain, eye, and spinal cord. ESTs have been isolated from brain, embryo, melanocyte/uterus/fetal heart, nerve, and testis libraries. GLUR4 refers to Ionotropic Glutamate Receptor 4, not to Metabotropic Glutamate Receptor 4 (mGLUR4).

Synonyms:

Metabotropic glutamate receptor 4, GPRC1D, MGLUR4