



# Anti-GRM1 (aa 387-486) polyclonal antibody (DPAB-DC1470)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a metabotropic glutamate receptor that functions by activating phospholipase C. 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 canonical alpha isoform of the encoded protein is a disulfide-linked homodimer whose activity is mediated by a G-protein-coupled phosphatidylinositol-calcium second messenger system. This gene may be associated with many disease states, including schizophrenia, bipolar disorder, depression, and breast cancer. Alternative splicing results in multiple transcript variants encoding different isoforms.
<b>Immunogen</b>	GRM1 (NP_000829, 387 a.a. ~ 486 a.a) partial recombinant protein with GST tag. The sequence is NPNFKRICTGNESLEENYVQDSKMGFVINAIYAMAHGLQNMHHALCPGHVGLCDAMKPID GSKLLDFLIKSSFIGVSGEEVWFDEKGDAPGRYDIMNLQY
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">GRM1 glutamate receptor, metabotropic 1 [ Homo sapiens (human) ]</a>
Official Symbol	GRM1
Synonyms	GRM1; glutamate receptor, metabotropic 1; MGLU1; GPRC1A; MGLUR1; SCAR13; PPP1R85; metabotropic glutamate receptor 1; protein phosphatase 1, regulatory subunit 85;
Entrez Gene ID	<a href="#">2911</a>
Protein Refseq	<a href="#">NP_001264993</a>
UniProt ID	<a href="#">Q13255</a>
Chromosome Location	6q24
Pathway	Calcium signaling pathway; Estrogen signaling pathway; G alpha (q) signalling events; GPCR ligand binding
Function	G-protein coupled receptor activity; glutamate receptor activity; protein binding;