

Product Information

MemDX™ Membrane Protein Human GRM2 (Glutamate metabotropic receptor 2) for Antibody Discovery, Partial (20-498aa)

Cat. No.: **MPX0041K**

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

This product is a 54 kDa Human GRM2 membrane protein. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

GRM2

Protein Length

Partial (20-498aa)

Protein Class

GPCR

Molecular Weight

54 kDa

TMD

7

Sequence

GPAKKVLTLEGDLVLGGLFPVHQKGGPAEDC
GPVNEHRGIQRLEAMLFALDRINRDPHLLPGVRLGAHILDSCSKDTHALE
QALDFVRASLSRGADGSRHICPDGSYATHGDAPTAITGVIGGSYSDVSIQ
VANLLRLRFQIPQISYASTSAKLSDKSRYDYFARTVPPDFFQAKAMAEILR
FFNWTVYSTVASEGDYGETGIEAFELEARARNICVATSEKVGRAMSRAAF
EGVVRALLQKPSARVAVLFTREDAARELLAASQRLNASFTWVASDGGWAL
ESVVGSEGAEEGAIITELASYPISDFASYFQSLDPWNNRNPNWFREFWE
QRFRCFSFRQRDCAHSLRAVPFEQESKIMFVVNAVYAMAHALHNMHRLC
PNTTRLCDAMRPVNGRRLYKDFVLNVKFDAPFRPADTHNEVRFDREFGDI
GRYNIFTYLRAGSGRYRYQKVGWYAEGLTLDTSIPWASPSAGPLPAS

Product Description

Tag

6xHis tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Reconstitute at 500 µg/mL in PBS.

Endotoxin

<0.1 EU/µg by the LAL method

Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Buffer

Lyophilized from a 0.2 µm filtered solution in PBS and DTT.

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

GRM2

Full Name

Glutamate metabotropic receptor 2

Introduction

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.

Alternative Names

GLUR2; mGlu2; GPRC1B; MGLUR2; glutamate receptor homolog; glutamate receptor, metabotropic 2; GRM2; Glutamate metabotropic receptor 2

Gene ID

[2912](#)

UniProt ID

[Q14416](#)