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Product Information

MemDX™ Membrane Protein Human GRM7 (Glutamate metabotropic receptor 7) for Antibody Discovery

Cat. No.: **MP0498X**
This product is for research use only and is not intended for diagnostic use.

This product is a 128.7 kDa Human GRM7 membrane protein expressed in *in vitro* wheat germ expression system. 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
GRM7

Protein Length
Full-length

Molecular Weight
128.7 kDa

TMD
7

Sequence
MVQLRKLLRVLTLMKFPCCVLEVLLCALAAAAARGQEMYAPHSIRIEGDVTLGGLFPVHAKGPSGVPCGDIKRENGIHRLEAMLYALD

Product Description

Application
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems
in vitro wheat germ expression system

Tag
GST-tag at N-terminal

Form
Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

GRM7

Full Name

Glutamate metabotropic receptor 7

Introduction

L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it 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 three 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. Multiple transcript variants encoding different isoforms have been found for this gene

Alternative Names

GLUR7; MGLU7; GPRC1G; MGLUR7; NEDSHBA; PPP1R87

Gene ID

2917

UniProt ID

Q14831

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