

Datasheet for ABIN5611161
anti-GRM7 antibody (AA 454-590)



[Go to Product page](#)

6 Images

Overview

Quantity:	100 µL
Target:	GRM7
Binding Specificity:	AA 454-590
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GRM7 antibody is un-conjugated
Application:	ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	GRM7 Antibody
Immunogen:	Purified recombinant fragment of human GRM7 (AA: 454-590) expressed in E. Coli.
Clone:	7G8D3
Isotype:	IgG1
Purification:	Purified antibody

Target Details

Target:	GRM7
Alternative Name:	GRM7 (GRM7 Products)
Background:	Description: L-glutamate is the major excitatory neurotransmitter in the central nervous system,

Target Details

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.

Aliases: GLUR7, MGLU7, GPRC1G, MGLUR7, PPP1R87

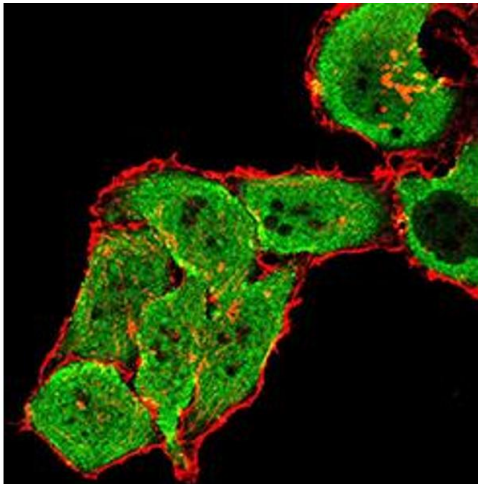
Molecular Weight:	102.3kDa
Gene ID:	2917
HGNC:	2917
UniProt:	Q14831
Pathways:	Sensory Perception of Sound , cAMP Metabolic Process , Feeding Behaviour

Application Details

Application Notes:	ELISA: 1/10000 FCM: 1/200 - 1/400 ICC: 1/200 - 1/1000
Restrictions:	For Research Use only

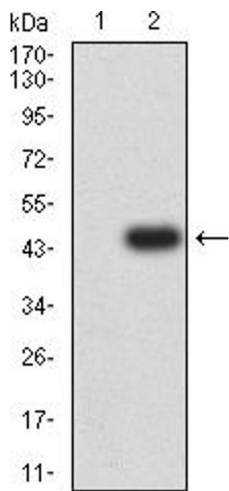
Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.



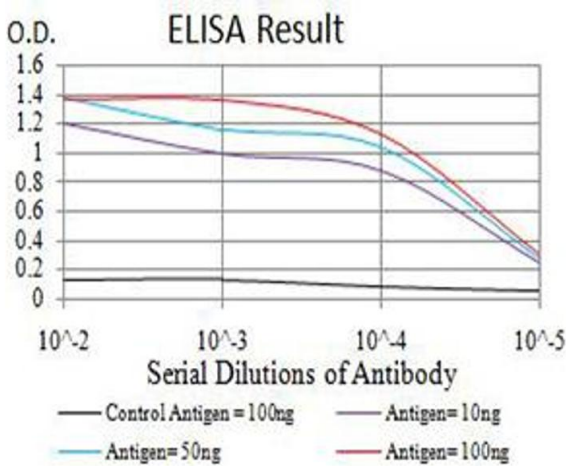
Immunofluorescence

Image 1. Immunofluorescence analysis of SMMC-7721 cells using GRM7 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Western Blotting

Image 2. Western blot analysis using GRM7 mAb against HEK293 (1) and GRM7 (AA: 454-590)-hlgGFC transfected HEK293 (2) cell lysate.



ELISA

Image 3. Black line: Control Antigen (100 ng),Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line:Antigen (100 ng)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN5611161.