

Rabbit mGluR7 Polyclonal Antibody | anti-mGluR7 antibody

mGluR7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320816	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

mGluR7; Polyclonal Antibody; mGluR7 Antibody; FLJ40498; GLUR7; Glutamate receptor metabotropic 7; GPRC1G; GRM7; GRM7_HUMAN; Metabotropic glutamate receptor 7; MGLU7; OTTHUMP00000206961; OTTHUMP00000214674; OTTHUMP00000214675; anti-mGluR7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	mGluR7 antibody detects endogenous levels of total mGluR7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	915
Applicable Applications for anti-mGluR7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human mGluR7
Subcellular Location	Cell Membrane
Tissue Specificity	Expressed in many areas of the brain, especially in the cerebral cortex, hippocampus, and cerebellum. Expression of GRM7 isoforms in non-neuronal tissues appears to be restricted to isoform 3 and isoform 4.
Predicted Cross Reactivity	Bovine, Horse, Dog
Similarity	Bovine (100%), Horse (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA320816 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA320816 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on HuvEc cell lysate using mGluR7 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-mGluR7 antibody	Description: mGluR7 Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. Belongs to the G-protein coupled receptor 3 family. Interacts with PICK1. 5 isoforms of the human protein are produced by alternative splicing. Function: G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. Subunit Structure: Interacts with PICK1. Similarity: Belongs to the G-protein coupled receptor 3 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504147
NCBI GeneID	2917
NCBI Accession #	NP_000835.1
NCBI GenBank Nucleotide #	NM_000844.3
UniProt Accession #	Q14831; Q8NFS2; Q8NFS3; Q8NFS4
Molecular Weight	Observed: 100 kDa Predicted: 103 kDa
NCBI Official Full Name	metabotropic glutamate receptor 7 isoform a
NCBI Official Synonym Full Names	glutamate metabotropic receptor 7
NCBI Official Symbol	GRM7
NCBI Official Synonym Symbols	GLUR7; MGLU7; GPRC1G; MGLUR7; PPP1R87
NCBI Protein Information	metabotropic glutamate receptor 7
UniProt Protein Name	Metabotropic glutamate receptor 7
UniProt Gene Name	GRM7
UniProt Synonym Gene Names	GPRC1G; MGLUR7; mGluR7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mglur7-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320816>