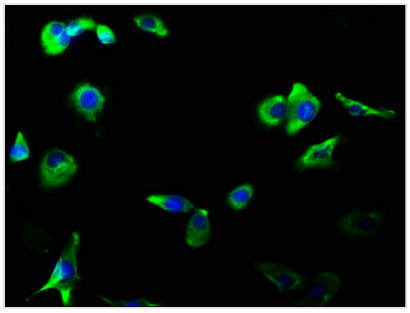
GRIA2/GRIA3 Recombinant Monoclonal Antibody

Product Code	CSB-RA009900A0HU
Abbreviation	Glutamate receptor 2
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P42262/P42263
Immunogen	A synthesized peptide derived from human GRIA2/GRIA3
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:20-1:200
Relevance	Receptor for glutamate that functions as ligand-gated ion channel in the central nervous system and plays an important role in excitatory synaptic transmission. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate. Through complex formation with NSG1, GRIP1 and STX12 controls the intracellular fate of AMPAR and the endosomal sorting of the GRIA2 subunit toward recycling and membrane targeting (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Glutamate receptor 2, GluR-2, AMPA-selective glutamate receptor 2, GluR-B, GluR-K2, Glutamate receptor ionotropic, AMPA 2, GluA2, GRIA2, GLUR2, Glutamate receptor 3, GluR-3, AMPA-selective glutamate receptor 3, GluR-C, GluR-K3, Glutamate receptor ionotropic, AMPA 3, GluA3, GRIA3, GLUR3, GLURC
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	GRIA2/GRIA3
Clone No.	4C3
Image	



Immunofluorescence staining of MCF-7 cells with CSB-RA009900A0HU at 1:56, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4?. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

The GRIA2/GRIA3 recombinant monoclonal antibody is a highly specific antibody that can target two closely related proteins GRIA2 and GRIA3. It is engineered using advanced biotechnological techniques, such as genetic engineering and antibody engineering. It is produced through the cloning of specific DNA sequences encoding the GRIA2/GRIA3 antibody heavy and light chains into a plasmid vector and subsequent transfection of the recombinant vector into a host cell for expression. The resulting GRIA2/GRIA3 recombinant monoclonal antibody is purified from affinity chromatography from the cell culture supernatant. It has been validated to detect human GRIA2 and GRIA3 in ELISA and IF applications.