

## Glutamate receptor 1 Conjugated Antibody

Catalog No: #C49118



Package Size: #C49118-AF350 100ul #C49118-AF405 100ul #C49118-AF488 100ul  
 #C49118-AF555 100ul #C49118-AF594 100ul #C49118-AF647 100ul  
 #C49118-AF680 100ul #C49118-AF750 100ul #C49118-Biotin 100ul

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## Description

Product Name	Glutamate receptor 1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	GLUR 1 antibody GLUR A antibody AMPA 1 antibody AMPA selective glutamate receptor 1 antibody AMPA-selective glutamate receptor 1 antibody GluA1 antibody GLUH1 antibody GluR K1 antibody GluR-1 antibody GluR-A antibody GluR-K1 antibody GLUR1 antibody GLURA antibody GluRK1 antibody Glutamate receptor 1 antibody Glutamate receptor ionotropic AMPA 1 antibody Glutamate receptor ionotropic antibody Glutamate receptor, ionotropic, AMPA 1 antibody Gria1 antibody GRIA1_HUMAN antibody HBGR1 antibody MGC133252 antibody OTTHUMP00000160643 antibody OTTHUMP00000165781 antibody OTTHUMP00000224241 antibody OTTHUMP00000224242 antibody OTTHUMP00000224243 antibody
Accession No.	Swiss-Prot#:P42261
Uniprot	P42261
GeneID	2890;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	92 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to -7. The kainate/AMPA receptors are primarily responsible for the fast excitatory neuro-transmission by glutamate whereas the NMDA receptors are functionally characterized by a slow kinetic and a high permeability for Ca<sup>2+</sup> ions. The NMDA receptors consist of five subunits: epsilon 1, 2, 3, 4 and one zeta subunit. The zeta subunit is expressed throughout the brainstem whereas the four epsilon subunits display limited distribution.

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Note: This product is for in vitro research use only