



Rabbit anti mGLUR5 Polyclonal Antibody

Alternate Names: Glutamate Receptor 5

Order Information

Description: Rabbit anti-mGluR5
 Catalogue#: 500-2874
 Lot#: See the label
 Size: 100 ug/200 ul
 Host: Rabbit
 Clone: N/A
 Application: WB, IP, IHC
 Reactivity: Hu, Rt.

ANTIGEN PREPARATION

A synthetic peptide derived from C-terminus of human Glutamate receptor. This sequence is identical to human and rat.

BACKGROUND

Glutamate receptors constitute the principal excitatory neurotransmitter receptors in brain. Two classes of glutamate receptors exist: ionotropic receptors, and metabotropic receptors. Ionotropic glutamate receptors are oligomeric complexes of various subunits (GluR1-7, NMDA1-3, KAI-2) which comprise ligand-gated calcium channels. Metabotropic glutamate receptors are G-protein coupled receptors, which when activated can activate phospholipases or adenylylcyclase, depending on the neuron.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~130 kDa of mGluR 5 Protein. It is cross react to human and rat. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

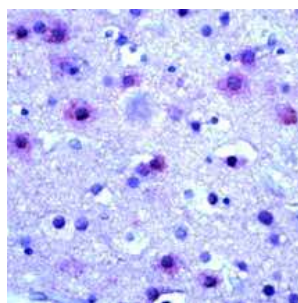
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	1:50
Flow cytometry	Not tested

MOLECULAR WEIGHT:	130 kDa
POSITIVE CONTROL:	Brain tissue
CELLULAR LOCATION:	Cytoplasmic

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



IHC: Human brain tissue stained with Anti-mGluR antibody, Cat# 500-2874 at 1:50 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

Bonsi P, Cuomo D, De Persis C, Centonze D, Bernardi G, Calabresi P, Pisani A (2005). "Modulatory action of metabotropic glutamate receptor (mGluR) 5 on mGluR1 function in striatal cholinergic interneurons". *Neuropharmacology* **49** Suppl 1: 104-13.

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