



Anti-Glutamate Receptor, metabotropic 8, Rabbit-Polyclonal Antibody

Catalog No. GB-30105
Antigen species: Human
Host species: Rabbit

Quantity: 100 μ g
Reactivity: Human
Form: Peptide affinity purified antibody

Applications: ELISA

Target description

GRM8 is a receptor for glutamate and is a member of the G protein coupled receptor family (subfamily metabotropic glutamate). The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. GRM8 has been reported primarily in the brain. ESTs have been isolated from B-cell/lung/testis, brain, breast, kidney, and testis libraries.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide containing amino acids on the predicted extracellular domain of human GRM8.

Application

The antibody titer is about 92K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/1000 dilution for ELISA, 1/500 dilution for Western blot analysis (WB) of recombinant protein, 1/250 dilution for tissue extracts or cell lysates, 1/50 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/10 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-glutamate receptor, metabotropic 2 (Grm2), pAb (GB-30102)

Ab dilution	Pre-bleed	Purified-Ab
1:100	0.099	1.345
1:1,000	0.060	0.297
1:10,000	0.057	0.098
1:100,000	0.053	0.061
Titer		92K

ELISA Protocol

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibody GB-30105 is diluted in series as $10^2 \sim 10^5$ folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined positive as >0.1 of ABS of antiserum minus pre-bleed serum.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 \times PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Kral, T., Erdmann, E., Sochivko, D., Clusmann, H., Schramm, J., Dietrich, D., 2003. Down-regulation of mGluR8 in pilocarpine epileptic rats. *Synapse*. Mar 15; 47(4):278-84.
2. Gerlai, R., Adams, B., Fitch, T., Chaney, S., Baez, M., 2002. Performance deficits of mGluR8 knockout mice in learning tasks: the effects of null mutation and the background genotype. *Neuropharmacology*. 43(2), 235-49.

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