

## *Anti-GluA4N (GluR4N)*

*(AMPA-type glutamate receptor subunit-4)*

**Code Number** : GluA4N-GP-Af640 (guinea pig, RRID : AB\_2571756)

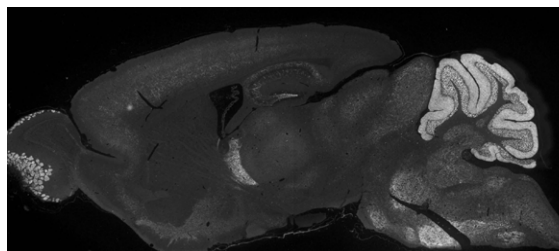
**Size** : 20 µg and 50 µg / See label on vial  
(affinity-purified with antigen polypeptide)

**Formulation** : Liquid ; 200 µg/ml in PBS with 0.05% NaN<sub>3</sub>.

**Storage** : Store at 4°C. The antibody can be stored at 4°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

**Species** : guinea pig, polyclonal

**Antigen** : mouse GluA4,  
N-terminal 262-294 aa (AB022913,  
FQLVDFNTPMVTKLMDRWKKLD  
QREYPGSETPP)



**Specificity** : mouse (others not tested)

Immunoblot detects a single protein band at 100kDa. No cross reactivity to other GluRs. Lack of signal in GluA4-KO brain.

**Applications** : In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

**Remarks** : For immunohistochemistry for neuronal iGluRs, users should adopt postembedding immunogold for electron microscopic detection and protease predigestion for light microscopic detection (see the below reference). For glial GluR, these antigen-exposing methods are not necessary (unpublished information). Original GluR4N-GP-Af380 was the best GluA4 antibody but ran out. Using the same antigen, GluA4N-GP-Af640 was produced in 2010 and is now supplied.

**Research Use** : For research use only, not for use in diagnostic procedures.

**Reference** : 1) Nagy, G.G., Al-Ayyan, M., Andrew, D., Fukaya, M., Watanabe, M., Todd, A.J. (2004) Widespread expression of the AMPA receptor GluR2 subunit at glutamatergic synapses in the rat spinal cord and phosphorylation of GluR1 in response to noxious stimulation revealed with an antigen unmasking method. *J. Neurosci.* 24:5766-5777.