



## GluR- $\delta$ 2 (G860) polyclonal antibody

Catalog: BS3029

Host: Rabbit

Reactivity: Human, Mouse, Rat

### 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 co-localize with NMDA receptors in many synapses and consist of seven structurally related subunits, designated GluR-1 to -7, as well as GluR- $\delta$ 2. The kainate/AMPA receptors are primarily responsible for the fast excitatory neurotransmission by glutamate whereas the NMDA receptors are functionally characterized by a slow kinetic and a high permeability for  $\text{Ca}^{2+}$  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. In mice, mutations in the gene encoding GluR- $\delta$ 2 (GRID2) cause the Lurcher phenotype. The gene encoding human GluR- $\delta$ 2 maps to chromosome 4q22.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 113 kDa

### Swiss-Prot:

O43424

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

IHC: 1:50~1:200

IF: 1:50~1:200

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

GluR- $\delta$ 2 (G860) polyclonal antibody detects endogenous levels of GluR- $\delta$ 2 protein.

### DATA:

### Note:

For research use only, not for use in diagnostic procedure.

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