GluR-3 Mouse mAb

CatalogNo: YM0309

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,ELISA

MW
- 101kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
ELISA 1:10000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human GluR-3 expressed in E. Coli.
Specificity	GluR-3 Monoclonal Antibody detects endogenous levels of GluR-3 protein.

Target Information

Gene name GRIA3

Protein Name Glutamate receptor 3

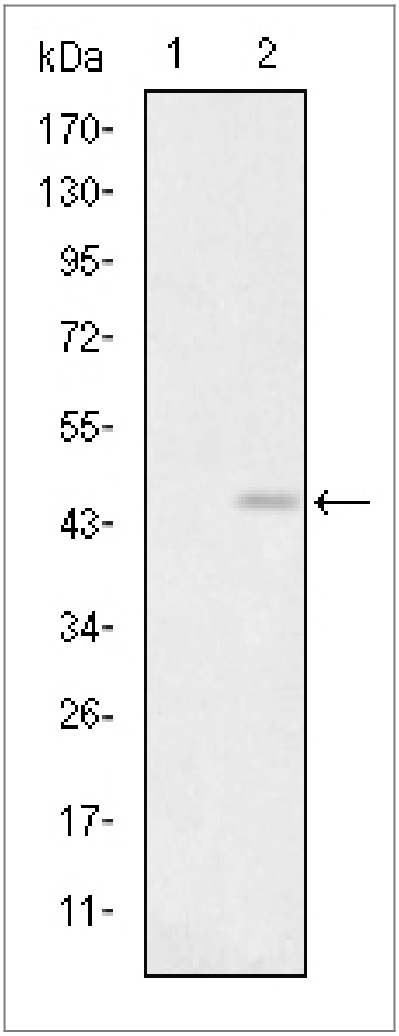
Organism	Gene ID	UniProt ID
Human	2892;	P42263;
Mouse		Q9Z2W9;

Cellular Localization Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Interaction with CNIH2 and CNIH3 promotes cell surface expression. .

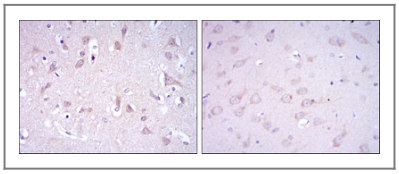
Tissue specificity Brain,Hippocampus,Skin,

Function Caution:It is uncertain whether Met-1 or Met-7 is the initiator.,Disease:Defects in GRIA3 are the cause of mental retardation X-linked type 94 (MRX94) [MIM:300699]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. MRX94 patients have moderate mental retardation. Other variable features are macrocephaly, seizures, myoclonic jerks, autistic behavior, asthenic body habitus, distal muscle weakness and hyporeflexia.,Function:Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist.,miscellaneous:The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. This receptor binds AMPA (quisqualate) > glutamate > kainate.,PTM:Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-621 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-847 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis.,similarity:Belongs to the glutamate-gated ion channel (TC 1.A.10) family.,subunit:Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be formed by the dimerization of dimers. Interacts with PRKCABP, GRIP1 and GRIP2.,

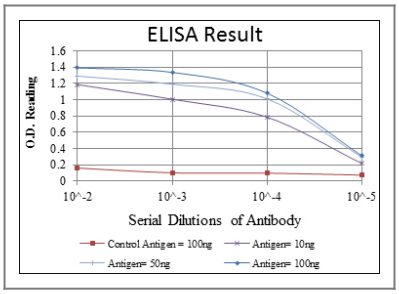
Validation Data



Western Blot analysis using GluR-3 Monoclonal Antibody against HEK293 (1) and GluR-3-hIgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human brain tissues (left) and rat brain tissues (right) with DAB staining using GluR-3 Monoclonal Antibody.



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Please scan the QR code to access additional product information:
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