GluR-2 (Phospho Tyr876) Rabbit pAb

CatalogNo: YP1227

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,IHC,IF

MW	Isotype
• 99kD (Observed)	• IgG

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.

Recommended Dilution Ratios

IHC 1:50-200
WB 1:500-2000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human GluR-2 (Phospho-Tyr876)
Specificity	This antibody detects endogenous phospho levels of GluR-2 (Phospho-Tyr876) at Human:Y876, Mouse:Y876, Rat:Y876.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):NVyGI

Target Information

Gene name GRIA2 GLUR2

Protein Name GluR-2 (Phospho-Tyr876)

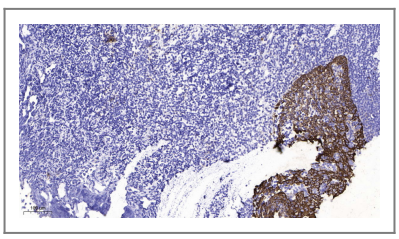
Organism	Gene ID	UniProt ID
Human	2891;	P42262;
Mouse	14800;	P23819;
Rat	29627;	P19491;

Cellular Localization Cell membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Cell junction , synapse , postsynaptic cell membrane ; Multi-pass membrane protein . Cell junction , synapse , postsynaptic density membrane ; Multi-pass membrane protein . Interaction with CACNG2 , CNIH2 and CNIH3 promotes cell surface expression (By similarity) . Displays a somatodendritic localization and is excluded from axons in neurons (By similarity) . .

Tissue specificity Brain ,

Function 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-610 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast , Cys-836 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis. ,RNA editing:Partially edited. Fully edited in the brain. Heteromerically expressed edited GLUR2 (R) receptor complexes are impermeable to calcium , whereas the unedited (Q) forms are highly permeable to divalent ions. ,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. May interact with MPP4. Forms a ternary complex with GRIP1 and CSPG4. Interacts with PRKCABP , GRIP1 and GRIP2. ,

Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4℃ overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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