

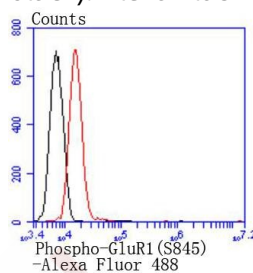
## Anti-Phospho-GluR1 (Ser845) Antibody (3V414)

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 102 kDa.
Clone:	3V414
Purification:	ProA affinity purified

## Applications

Verified Activity: 1. Flow cytometric analysis of N2A cells with Phospho-GluR1 (S845) antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



Application:	FCM,WB
Recommended	WB: 1:500; FCM: 1:10-50

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthesized phosphopeptide: human GluR1 around the phosphorylation site of Ser845
Antigen Species:	human
Uniprot ID:	P42261
Synonyms:	p-GluR1 (S845);GluR1 (p-S845);p-GluR1 (Ser845);GluR1 (p-Ser845)

## Research 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 are co-localized with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to -7. The kainate/AMPA receptors are primarily responsible for the fast excitatory neuro-transmission by glutamate whereas the NMDA receptors are functionally characterized by a slow

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kinetic and a high permeability for Ca<sup>2+</sup> 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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