

Anti-Ionotropic Glutamate receptor 2 antibody [S21-32] ab106515

★★★★★ [2 Abreviews](#) [2 References](#) [5 图像](#)

概述

产品名称	Anti-Ionotropic Glutamate receptor 2抗体[S21-32]
描述	小鼠单克隆抗体[S21-32] to Ionotropic Glutamate receptor 2
宿主	Mouse
经测试应用	适用于: IP, WB, IHC-P, IHC-Fr, ICC, ICC/IF, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human
免疫原	Fusion protein, corresponding to cytoplasmic C-terminal amino acids 834-883 of Rat Ionotropic Glutamate receptor 2 (P42262).
阳性对照	Rat brain lysate

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium Azide Constituents: 50% Glycerol, PBS, pH 7.4
纯度	Protein G purified
克隆	单克隆
克隆编号	S21-32
同种型	IgG1

应用

The Abpromise guarantee [Abpromise™](#) 承诺保证使用ab106515于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP	★★★★★ (1)	Use at an assay dependent concentration.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 99 kDa.

应用	Ab评论	说明
IHC-P		Use a concentration of 0.1 - 1 µg/ml.
IHC-Fr	★★★★★ (1)	Use a concentration of 0.1 - 1 µg/ml.
ICC		Use a concentration of 0.1 - 1 µg/ml.
ICC/IF		Use a concentration of 1 - 10 µg/ml.
Flow Cyt		Use 0.1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能

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. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

序列相似性

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA2 subfamily.

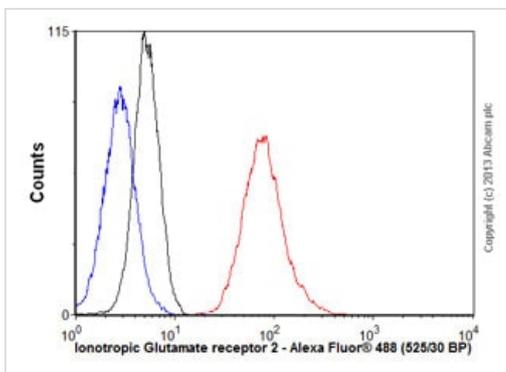
翻译后修饰

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.

细胞定位

Cell membrane. Endoplasmic reticulum membrane. Cell junction > synapse > postsynaptic cell membrane. Interaction with CACNG2, CNIH2 and CNIH3 promotes cell surface expression.

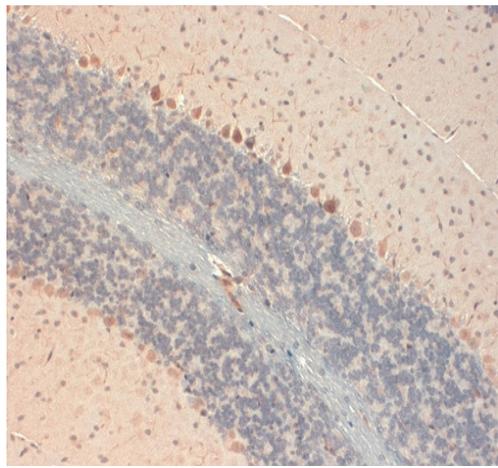
图片



Flow Cytometry - Anti-Ionotropic Glutamate receptor 2 antibody [S21-32] (ab106515)

Overlay histogram showing SH-SH5Y cells stained with ab106515 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab106515, 0.1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and

525/30 bandpass filter. This antibody gave a positive signal in SH-SY5Y cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



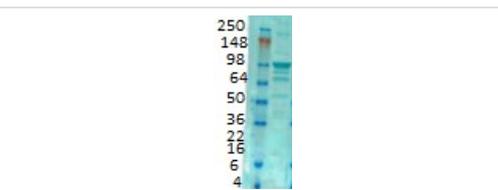
Immunohistochemical detection of Ionotropic Glutamate receptor 2 using ab106515 in Mouse cerebellar tissue sections.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ionotropic Glutamate receptor 2 antibody [S21-32] (ab106515)



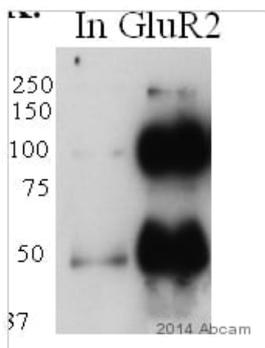
Immunohistochemical detection of Ionotropic Glutamate receptor 2 using ab106515 in Mouse hippocampal tissue sections.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ionotropic Glutamate receptor 2 antibody [S21-32] (ab106515)



Western blot detection of Ionotropic Glutamate receptor 2 in Rat brain membrane tissues using ab106515 at 1:1000.

Western blot - Anti-Ionotropic Glutamate receptor 2 antibody [S21-32] (ab106515)



Immunoprecipitation - Anti-Ionotropic Glutamate receptor 2 antibody [S21-32] (ab106515)

This image is courtesy of an anonymous Abreview

ab106515 Immunoprecipitating Ionotropic Glutamate receptor 2 in mouse hippocampus tissue lysate. 5µg of tissue lysate was incubated with primary antibody (1/100) and matrix (Protein G) for 24 hours at 4°C. For western blotting ab106515 (1/5000) was used to confirm successful immunoprecipitation.

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