abcam

Product datasheet

Anti-Ionotropic Glutamate receptor 2 antibody ab20673

★★★★★ 1 Abreviews 6 References 3 图像

概述

产品名称	Anti-Ionotropic Glutamate receptor 2**抗体**
描述	**兔多克隆抗体**to Ionotropic Glutamate receptor 2
经测试应用	**适用于:** IHC-FoFr, WB
种属反应性	**与反应:** Mouse, Rat **预测可用于:** Chicken, Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 150 - 250 of Mouse GluR2 . **参阅Abcam的专有抗源政策** (Peptide available as ab25708.)
阳性对照	ab20673 gave a positive result in the following tissue lysates: Mouse brain Mouse cortex Rat brain

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab20673** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

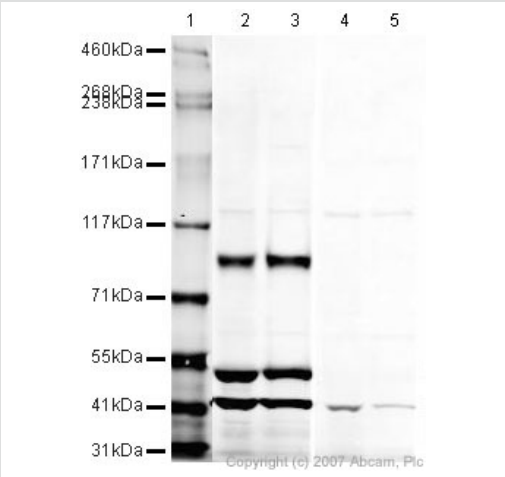
应用	Ab评论	说明
IHC-FoFr	★★★★★	1/300.

应用	Ab评论	说明
WB		Use a concentration of 3 - 10 µg/ml. Detects a band of approximately 99 kDa (predicted molecular weight: 99 kDa).Can be blocked with Mouse Ionotropic Glutamate receptor 2 peptide (ab25708).

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



Western blot - GluR2 antibody (ab20673)

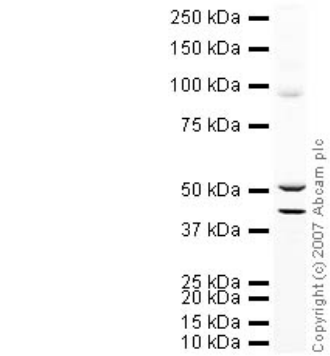
Lane 1 : Marker
Lanes 2 - 5 : Anti-Ionotropic Glutamate receptor 2 antibody (ab20673) at 1 µg/ml

Lane 1 : As above
Lane 2 : Brain (Mouse) Tissue Lysate at 10 µg
Lane 3 : Cortex (Mouse) Tissue Lysate at 10 µg
Lane 4 : Brain (Mouse) Tissue Lysate at 10 µg with Mouse Ionotropic Glutamate receptor 2 peptide (ab25708) at 1 µg/ml
Lane 5 : Cortex (Mouse) Tissue Lysate at 10 µg with Mouse Ionotropic Glutamate receptor 2 peptide (ab25708) at 1 µg/ml

Secondary
Lanes 2 - 5 : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size : 99 kDa
Observed band size : 99 kDa
Additional bands: The band observed at ~50KDa is consistent with the predicted size of Gria2 protein, for which GluR2 is the precursor. We are unsure as to the identity of the band at ~43KDa.



Western blot - GluR2 antibody (ab20673)

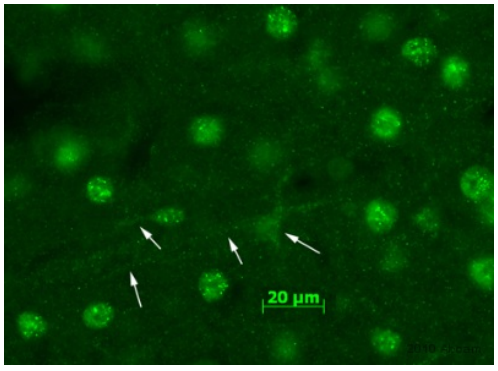
Anti-Ionotropic Glutamate receptor 2 antibody (ab20673) at 1 µg/ml + Brain (Rat) Tissue Lysate - normal tissue at 10 µg

Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Predicted band size : 99 kDa
Observed band size : 99 kDa
Additional bands at : 43 kDa. We are unsure as to the identity of these extra bands.

The band observed at 50KDa is consistent with the predicted size of Gria2 protein, for which GluR2 is the precursor.



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Ionotropic Glutamate receptor 2 antibody (ab20673)

This image is courtesy of an abreview submitted by Dr Sophie Pezet, CNRS, Paris, France

Immunohistochemistical detection of Ionotropic Glutamate receptor 2 using antibody (ab20673) on PFA perfusion-fixed frozen rat brain sections. Primary antibody was used at 1/300, incubated for 18 hours @ 20°C in PBS + 0.3 % Triton X100. Secondary Antibody: Goat anti-rabbit Alexa Fluor® 488 (1/1000). The image demonstrates immunostaining obtained in the rat cortex, thin and punctuated cytoplasmic staining is observed as previously described for the hippocampus (J neurosci 2003 Nov 1923(33):10521-30). There is some staining in cellular processes as well (arrows).

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