


Product datasheet

Anti-Ionotropic Glutamate receptor 2 antibody ab20673

★★★★★ [1 Abreviews](#) [27 References](#) [2 Images](#)

Overview

Product name	Anti-Ionotropic Glutamate receptor 2 antibody
Description	Rabbit polyclonal to Ionotropic Glutamate receptor 2
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat Predicted to work with: Chicken, Human 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 150 - 250 of Mouse GluR2 . Read Abcam's proprietary immunogen policy (Peptide available as ab25708 .)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

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.

Application	Abreviews	Notes
WB		Use a concentration of 3 - 10 µg/ml. Detects a band of approximately 99 kDa (predicted molecular weight: 99 kDa).

Target

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. 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.

Sequence similarities

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

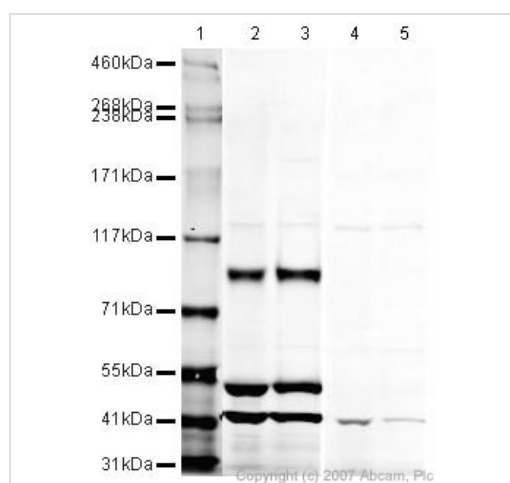
Post-translational modifications

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.

Cellular localization

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

Images



Western blot - Anti-Ionotropic Glutamate receptor 2 antibody (ab20673)

Lane 1 : Marker

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

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

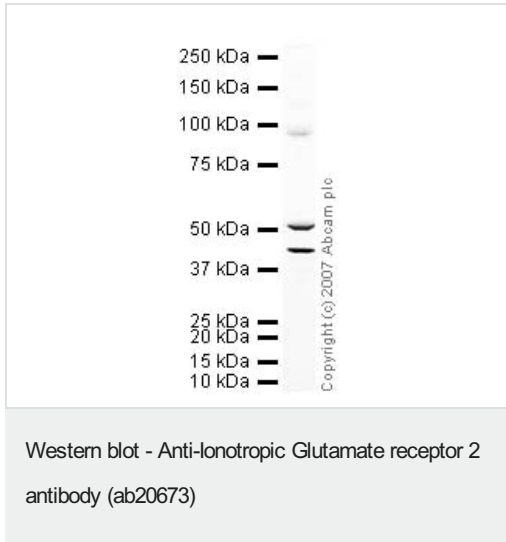
Lanes 2-5 : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

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.



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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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