


Product datasheet

Anti-GABA B Receptor 2/GABBR2 (phospho S783) antibody ab72447

★★★★★ [1 Abreviews](#) [1 Image](#)

Overview

Product name	Anti-GABA B Receptor 2/GABBR2 (phospho S783) antibody
Description	Rabbit polyclonal to GABA B Receptor 2/GABBR2 (phospho S783)
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat Predicted to work with: Mouse, Chicken, Cow, Human, Xenopus laevis, Non human primates 
Immunogen	Synthetic peptide corresponding to Rat GABA B Receptor 2/GABBR2 (phospho S783) conjugated to keyhole limpet haemocyanin.
Positive control	rat synaptic membrane
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.50 Constituents: 0.87% Sodium chloride, 0.238% HEPES, 0.01% BSA, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab72447 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		1/1000. Detects a band of approximately 106 kDa (predicted molecular weight: 106 kDa).

Target

Function

Receptor for GABA. The activity of this receptor is mediated by G-proteins that inhibit adenylyl cyclase activity, stimulates phospholipase A2, activates potassium channels, inactivates voltage-dependent calcium-channels and modulates inositol phospholipids hydrolysis. Plays a critical role in the fine-tuning of inhibitory synaptic transmission. Pre-synaptic GABA-B-R inhibit neurotransmitter release by down-regulating high-voltage activated calcium channels, whereas postsynaptic GABA-B-R decrease neuronal excitability by activating a prominent inwardly rectifying potassium (Kir) conductance that underlies the late inhibitory postsynaptic potentials. Not only implicated in synaptic inhibition but also in hippocampal long-term potentiation, slow wave sleep, muscle relaxation and antinociception.

Tissue specificity

Highly expressed in brain, especially in cerebral cortex, thalamus, hippocampus, frontal, occipital and temporal lobe, occipital pole and cerebellum, followed by corpus callosum, caudate nucleus, spinal cord, amygdala and medulla. Weakly expressed in heart, testis and skeletal muscle.

Sequence similarities

Belongs to the G-protein coupled receptor 3 family. GABA-B receptor subfamily.

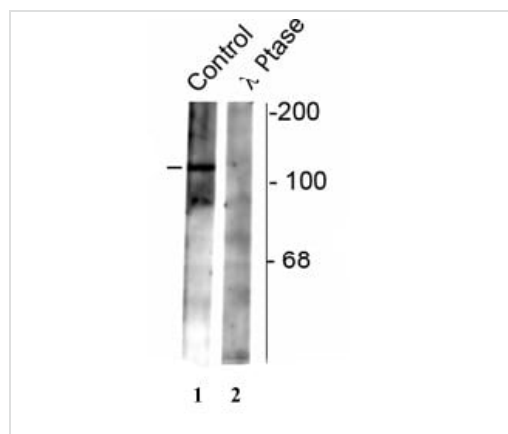
Domain

Alpha-helical parts of the C-terminal intracellular region mediate heterodimeric interaction with GABA-B receptor 1.

Cellular localization

Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Moreover coexpression of GABA-B-R1 and GABA-B-R2 appears to be a prerequisite for maturation and transport of GABA-B-R1 to the plasma membrane.

Images



All lanes : Anti-GABA B Receptor 2/GABBR2 (phospho S783) antibody (ab72447) at 1/1000 dilution

Lane 1 : rat synaptic membrane

Lane 2 : rat synaptic membrane pre-incubated in lambda-Phosphatase (1200 units for 30 min)

Predicted band size: 106 kDa

Observed band size: 106 kDa

Western blot - Anti-GABA B Receptor 2/GABBR2 (phospho S783) antibody (ab72447)

The immunolabeling is completely eliminated by treatment with lambda Ptase.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors