abcam

Product datasheet

Anti-GABA A Receptor beta 3/GABRB3 antibody ab104659

1 References 2 Images

Overview

Product name	Anti-GABA A Receptor beta 3/GABRB3 antibody
Description	Rabbit polyclonal to GABA A Receptor beta 3/GABRB3
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Rabbit
Immunogen	Synthetic peptide corresponding to Rat GABA A Receptor beta 3/GABRB3 aa 400 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as **ab125892**)
Positive control	WB: Rat and mouse brain and hippocampus tissues.
General notes	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. 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

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 ab104659 in the following tested applications.

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

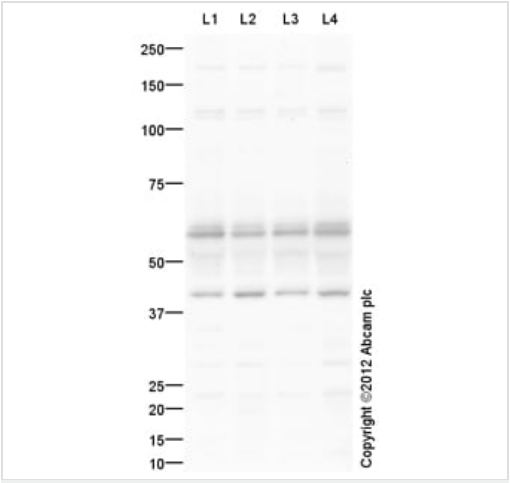
Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).

Application notes Is unsuitable for IHC-P.

Target

Function	Component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the vertebrate brain. Functions also as histamine receptor and mediates cellular responses to histamine. Functions as receptor for diazepines and various anesthetics, such as pentobarbital; these are bound at a separate allosteric effector binding site. Functions as ligand-gated chloride channel.
Involvement in disease	Epilepsy, childhood absence 5
Sequence similarities	Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRB3 sub-subfamily.
Cellular localization	Cell junction, synapse, postsynaptic cell membrane. Cell membrane.

Images



Western blot - Anti-GABA A Receptor beta 3/GABRB3 antibody (ab104659)

All lanes : Anti-GABA A Receptor beta 3/GABRB3 antibody (ab104659) at 1 µg/ml

Lane 1 : Brain (Rat) Tissue Lysate
Lane 2 : Brain (Mouse) Tissue Lysate
Lane 3 : Rat Hippocampus Tissue Lysate
Lane 4 : Mouse Hippocampus Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

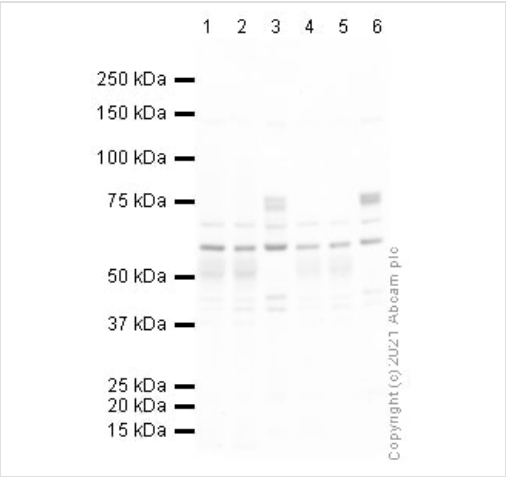
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 54 kDa
Observed band size: 58 kDa
Additional bands at: 40 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

GABA A Receptor beta 3/GABRB3 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Western blot - Anti-GABA A Receptor beta 3/GABRB3 antibody (ab104659)

All lanes : Anti-GABA A Receptor beta 3/GABRB3 antibody (ab104659) at 1 µg/ml

Lane 1 : Rat Brain Tissue Lysate
Lane 2 : Mouse Brain Tissue Lysate
Lane 3 : Human brain tissue lysate
Lane 4 : Rat Hippocampus Tissue Lysate
Lane 5 : Mouse Hippocampus Tissue Lysate
Lane 6 : Human hippocampus Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 54 kDa

Exposure time: 4 minutes

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