




Product datasheet

# Anti-GABA A Receptor alpha 1 antibody [N95/35] ab94585

3 References 2 Images

Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-GABA A Receptor alpha 1 antibody [N95/35]   |
| <b>Description</b>         | Mouse monoclonal [N95/35] to GABA A Receptor alpha 1   |
| <b>Host species</b>        | Mouse  |
| <b>Specificity</b>         | ab94585 does not react with GABA A Receptor Alpha 2 or Alpha 3.  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, IHC-P   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Human<br><b>Predicted to work with:</b> Rat, Cow, Cynomolgus monkey, Orangutan   |
| <b>Immunogen</b>           | Fusion protein corresponding to Mouse GABA A Receptor alpha 1 aa 355-394.<br>Sequence:<br>KVKDPLIKKNNTYAPTATSYTPNLARGDPGLATIAKSATI<br><br>Database link: <a href="#">P62812</a><br><br> <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> |
| <b>Positive control</b>    | WB: Rat brain normal tissue lysate - membrane extract ( <a href="#">ab29473</a> ), Human cell line mix lysate.<br>IHC-P: Mouse back skin tissue.   |
| <b>General notes</b>       | The clone number has been updated from S95-35 to N95/35, both clone numbers name the same antibody clone.  |

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

## Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.     |
| <b>Storage buffer</b>       | Preservative: 0.09% Sodium azide<br>Constituents: 50% Glycerol (glycerin, glycerine), PBS |
| <b>Purity</b>               | Protein G purified  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | N95/35  |
| <b>Isotype</b>              | IgG2a   |

## Applications

Our [Abpromise guarantee](#) covers the use of **ab94585** 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 - 10 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 52 kDa). |
| IHC-P       |           | Use a concentration of 0.1 - 1 µg/ml.   |

## Target

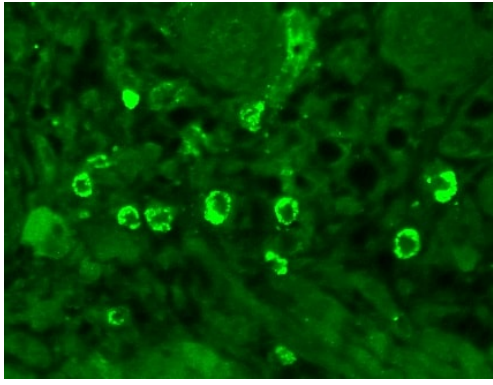
|                               |   |
|-------------------------------|---|
| <b>Function</b>               | GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.  |
| <b>Involvement in disease</b> | Defects in GABRA1 are the cause of childhood absence epilepsy type 4 (ECA4) [MIM:611136]. A subtype of idiopathic generalized epilepsy characterized by onset at age 6-7 years, frequent absence seizures (several per day) and bilateral, synchronous, symmetric 3-Hz spike waves on EEG. During adolescence, tonic-clonic and myoclonic seizures may develop. Absence seizures may either remit or persist into adulthood.<br>Defects in GABRA1 are the cause of juvenile myoclonic epilepsy type 5 (EJM5) [MIM:611136]. A subtype of idiopathic generalized epilepsy. Patients have afebrile seizures only, with onset in adolescence (rather than in childhood) and myoclonic jerks which usually occur after awakening and are triggered by sleep deprivation and fatigue. |
| <b>Sequence similarities</b>  | Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor   |

(TC 1.A.9.5) subfamily. GABRA1 sub-subfamily.

## Cellular localization

Cell junction > synapse > postsynaptic cell membrane. Cell membrane.

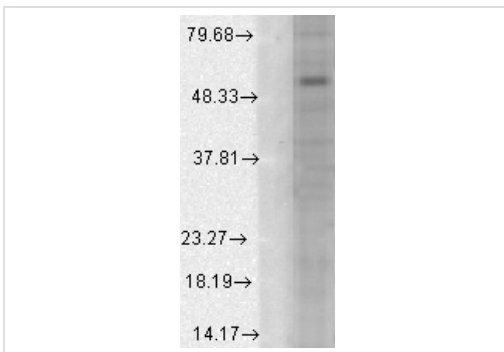
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA A Receptor alpha 1 antibody [N95/35] (ab94585)

Bouin's Fixative and paraffin-embedded mouse back skin tissue stained for GABA A Receptor alpha 1 with ab94585 (1/100 dilution for 1 hour at RT) in immunohistochemical analysis.

Secondary antibody is a FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dermal Cells.



Western blot - Anti-GABA A Receptor alpha 1 antibody [N95/35] (ab94585)

Anti-GABA A Receptor alpha 1 antibody [N95/35] (ab94585) at 1/1000 dilution + Human cell line mix lysates at 15 µg

### Secondary

Sheep Anti-Mouse IgG: HRP

**Predicted band size:** 52 kDa

**Block:** 1% BSA.

Primary antibody incubated for 2 hours at RT.

Secondary antibody incubated for 1 hour at RT.

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

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