




Product datasheet

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

[7 References](#) [2 Images](#)

Overview

Product name	Anti-GABA A Receptor alpha 1 antibody [N95/35]
Description	Mouse monoclonal [N95/35] to GABA A Receptor alpha 1
Host species	Mouse
Specificity	ab94585 does not react with GABA A Receptor Alpha 2 or Alpha 3.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Cynomolgus monkey, Orangutan 
Immunogen	Recombinant fragment within Mouse GABA A Receptor alpha 1 aa 350-450. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: P62812  Run BLAST with  Run BLAST with
Positive control	WB: Rat brain normal tissue lysate - membrane extract (ab29473), Human cell line mix lysate. IHC-P: Mouse back skin tissue.
General notes	<p>The clone number has been updated from S95-35 to N95/35, both clone numbers name the same antibody clone.</p> <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	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N95/35
Isotype	IgG2a

Applications

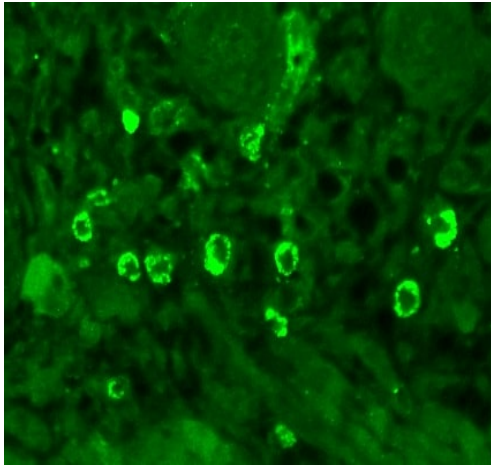
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab94585 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Function	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.
Involvement in disease	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. 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.
Sequence similarities	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.

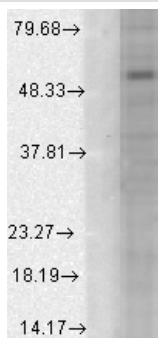
Images



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.

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