

Product datasheet

Anti-GABA antibody [5A9] ab86186

★★★★☆ [4 Abreviews](#) [11 References](#) [2 Images](#)

Overview

Product name	Anti-GABA antibody [5A9]
Description	Mouse monoclonal [5A9] to GABA
Host species	Mouse
Specificity	ab86186 is highly specific to GABA and does not react with other amino acid BSA conjugates with the exception of weak reaction against beta alanine BSA conjugate at the highest concentrations used.
Tested applications	Suitable for: IHC-P, ICC/IF, IHC-FoFr
Species reactivity	Reacts with: Species independent
Immunogen	GABA coupled to BSA with glutaraldehyde
General notes	<p>ab86186 is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.</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. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Primary antibody notes	ab86186 is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.

Clonality	Monoclonal
Clone number	5A9
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86186 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

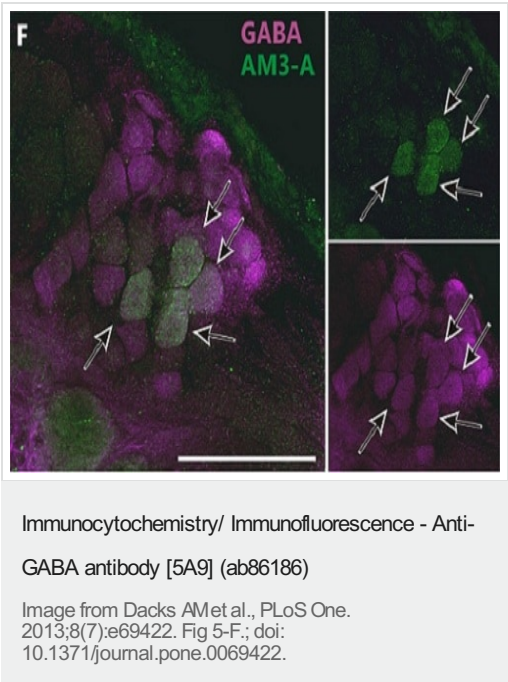
Application	Abreviews	Notes
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-FoFr	★★★★★ (1)	Use at an assay dependent concentration.

Target

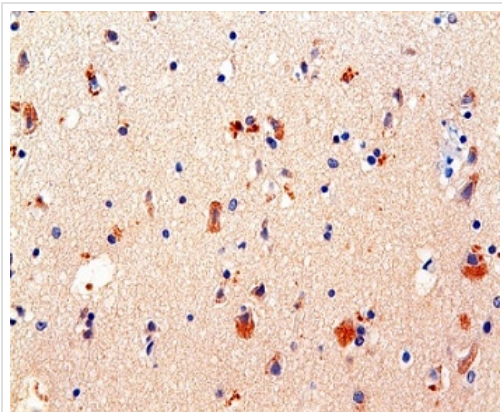
Relevance Gamma-aminobutyric acid (GABA) is a major inhibitory neurotransmitter. GABA acts at inhibitory synapses in the brain and spinal cord. Inhibition is provoked by GABA binding resulting in hyperpolarization of the synaptic transmembrane potential of the affected neuron. GABA binding causes ion channels to open allowing either the flow of chloride or potassium ions into or out of the cell.

Cellular localization Cell Membrane, Cytoplasmic, Plasma membrane and Secreted

Images



ab86186 staining GABA in the Brains of 2-5 days old moths (Manduca) by ICC/IF (Immunocytochemistry/immunofluorescence). The head capsules were fixed with 4% paraformaldehyde, washed in PBS and embedded in Low melting point Agarose and section to 75 µm thickness. Section were blocked with 2% BSA(IgG-free) . Samples were incubated with primary antibody (1/500 in PBS). Double labeling against the Ms5HT1A receptor (green) and GABA (magenta) revealed a subset of Ms5HT1A-ir cell bodies co-localizing GABA (arrows). Scale bar = 100 µm.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA antibody [5A9] (ab86186)

Immunohistochemical analysis of human brain tissue labeling GABA with ab86186 at 1:20 dilution. Sample was incubated with primary antibody for 60 minutes.

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

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