

# Anti-GABA antibody ab9446

## 3 References

### 製品の概要

|          |   |
|----------|---|
| 製品名      | Anti-GABA antibody  |
| 製品の詳細    | Rabbit polyclonal to GABA   |
| 由来種      | Rabbit  |
| 特異性      | The antibody is calibrated against a spectrum of antigens to assure hapten selectivity. Fixed tissue cross-reactivity was tested with known targets at the recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) was detected against L-alanine, D/L-aspartate, 1-amino-4-guanidobutane (AGB), D/L-arginine, L-citrulline, L-cysteine, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine.   |
| アプリケーション | <b>適用あり:</b> IHC-FoFr, IHC-Fr, Immunomicroscopy   |
| 種交差性     | <b>交差種:</b> Species independent   |
| 免疫原      | Chemical/ Small Molecule conjugated to BSA by a Glutaraldehyde linker   |
| 特記事項     | <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&amp;As</p> |

### 製品の特性

|        |   |
|--------|---|
| 製品の状態  | Liquid  |
| 保存方法   | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| 精製度    | IgG fraction  |
| ポリ/モノ  | ポリクローナル   |
| アイソタイプ | IgG   |

### アプリケーション

## The Abpromise guarantee

**Abpromise保証は、次のテスト済みアプリケーションにおけるab9446の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション         | Abreviews | 特記事項 |
|------------------|-----------|------|
| IHC-FoFr         |           |      |
| IHC-Fr           |           |      |
| Immunomicroscopy |           |      |

## 追加情報

This antibody is recommended for thin section post-embedding endogenous content mapping by Light and Electron microscopy immunostaining via High Performance Immunohistochemistry (HPI) (see "Protocols" tab above)

Recommended user dilution: 1/100

True Dilution at User Dilution: 1/32000

High-performance thin section immunostaining using silver-intensified immunogold or fluorescence detection.

Enhanced detection is possible using streptavidin detection.

EM applications with 10-40 nm gold GAR IgGs or gold streptavidin.

OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde, 1% formaldehyde using HPI protocol (The antisera targets the glutaraldehyde conjugate of the hapten).

MINIMAL GLUTARALDEHYDE: 0.00% using minimum glutaraldehyde Enhanced HPI (EHPI) protocol with 4% formaldehyde (see "Protocols" tab above)

The hapten is osmium tolerant (deosmication required), therefore the antisera can be used on conventional post-embedding electron microscope immunostaining.

All procedures may be carried out at room temperature. Exact dilutions for all applications cannot be predicted, but it is unlikely that deviations from the calibrated levels will be needed. Dilutions are optimized for antigen detection over a 2 log unit range.

The product is optimized for HPI/EHPI with gold or fluorescence detection using etched plastic sections. Filter diluted reagents with 0.2 mm syringe filters before use on EM grids. Enzyme-linked visualizations can be used but will compress the signal dynamic range and are less sensitive.

Use with frozen or vibratome sections is possible but will not yield optimal images as IgGs penetrate aldehyde cross-linked tissue poorly and most amino acids are present at such high levels that prozone effects occur. Use in whole mounts is not recommended for similar reasons.

## ターゲット情報

### 関連性

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.

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

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