# GABA Antibody – Chicken Polyclonal

Ref: IS1036

The anti-GABA antibody IS1036 is a **chicken** polyclonal antibody developed for its superior affinity and specificity but also to work in multiplex staining with rabbit polyclonal or mouse monoclonal antibodies. Combined with the STAINperfect immunostaining kit A for samples preparation, this antibody allows visualization of GABA in whole mounts, cell cultures and tissue sections.

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| **Clonality** | Polyclonal |
| **Host** | **Chicken** |
| **Eligible samples** | Whole mounts, cell culture, tissue sections |
| **Reactivity** | Reacts with all species |
| **Staining procedure** | STAINperfect immunostaining kit A |
| **Format** | 50µL (approx. 40 tissue sections) |
| **References** | Cited in 5 papers |

# INFORMATIONS

## Product overview

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| **Product name** | GABA antibody – Chicken pAb |
| **Synonyms** | Anti-gamma-Aminobutyric acid antibody |
| **Immunogen** | Conjugated GABA |
| **Specificity** | When tested in competitive ELISA, the anti-conjugated GABA antibody did not show any significant cross reactivity with gamma-Aminobutyric acid analogs, including beta-Alanine and D-Alanine |
| **Volume** | 50µL |

## Storage

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| **Form** | Liquid |
| **Purity** | Purified anti-serum |
| **Storage** | Store at +4°C for short term (1-2 months). Aliquot and store at -20°C for long term. Avoid repeated freeze / thaw cycles |
| **Material safety datasheet** | Download MSDS |

# PROTOCOLS

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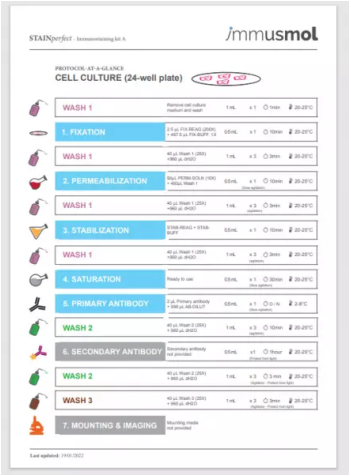
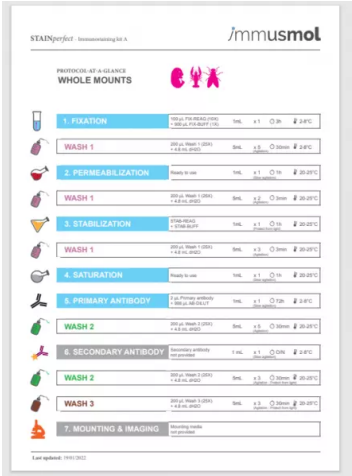
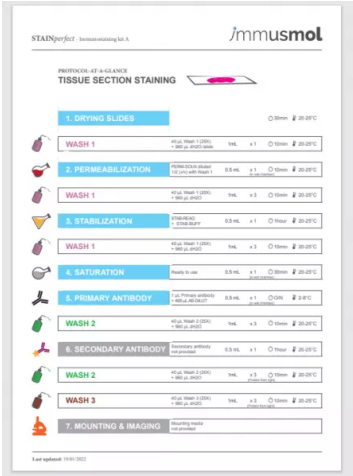
| **IF – Cell cultures, Whole mounts, Tissue sections** | Dilute antibody with the antibody diluent provided in the STAINperfect immunostaining kit A. Use at 1/250 -1/1000 dilution. Follow the STAINperfect protocol suited to your sample |
| **Comments** | Optimal working dilutions must be determined by the end-user |
| **Restrictions** | For research use only |
| **Full protocol** | Download STAINperfect protocol for GABA staining |

**Protocols-at-a-glance**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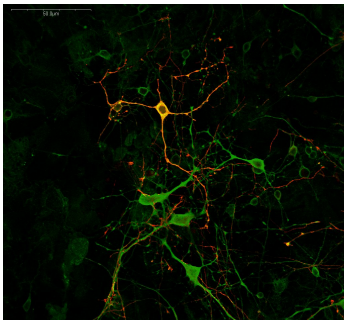
|---|---|---|---|
| Complete Instructions for Use | Protocol-at-a-glance for cell cultures | Protocol-at-a-glance for whole mounts | Protocol-at-a-glance for tissue sections |

# REFERENCES

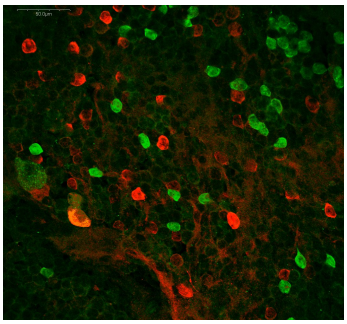
Product citations

# Product pictures



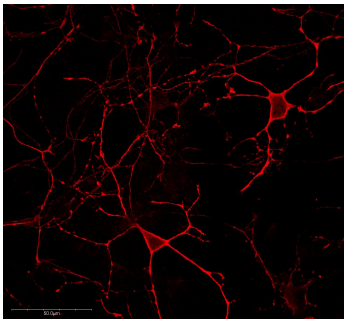
### GABA and L-Serine in mouse primary neurons culture

Primary mouse cortical neurons were stained using anti-GABA chicken polyclonal antibody (red) and anti-L-Serine polyclonal rabbit antibody (green) using the STAINperfect immunostaining kit A and according to the optimized protocol for cell culture. Co-immunostaining appears in yellow. Alexa fluor 546 and 488 conjugated secondary antibodies respectively were used and picture obtained by confocal imaging.



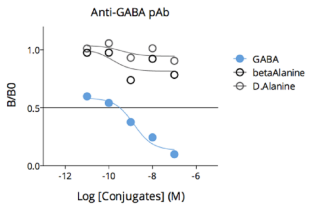
### GABA and Dopamine immunostaining in crayfish eyetalk

Using STAINperfect immunostaining kit A, the anti-GABA (red)chicken polyclonal antibody (IS1036) combined with anti-dopamine (green) rabbit polyclonal antibody (IS1005) demonstrate the presence of GABA and dopamine in crayfish eyetalk. The staining was performed according to the protocol optimized for whole-mount samples. Fluorescent labeled secondary antibodies were used and image obtained by fluorescence imaging.



### GABA immunostaining in mouse cortical primary neurones

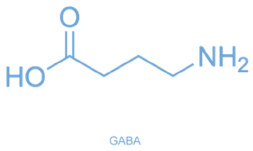
Primary mouse cortical neurons were stained using anti-GABA chicken polyclonal antibody and the STAINperfect immunostaining kit A according to the optimized protocol for cell culture. Alexa fluor 546 conjugated secondary antibody was used and picture obtained by confocal imaging.




### Affinity & specificity of anti-GABA antibody

Competitive ELISA demonstrates that low amounts of GABA conjugate are required to abolish antigen-antibody reaction (high affinity), while rising concentrations of GABA competitors beta Alanine or D-Alanine do not affect reaction (high specificity).

**Gamma-aminobutyric acid (GABA)**



GABA

In the mammalian brain, inhibitory neurotransmitter Gamma-aminobutyric acid (GABA) is mainly synthesized from excitatory L-Glutamate by enzyme glutamic acid decarboxylase (GAD). Regulating neuronal excitability, GABAergic synapses are present throughout the CNS, although GABA is found most highly concentrated in the subtantia nigra, the globus pallidus nuclei, the hypothalamus, the periaqueductal grey matter and the hyppocampus.

# Contact information

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## To order, review, ask for technical support, visit product page at:

https://www.immusmol.com/shop/gaba-chicken-pab/