

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.

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

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

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


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

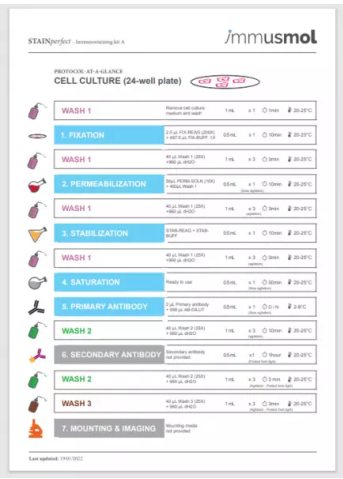
Comments Optimal working dilutions must be determined by the end-user


Restrictions For research use only

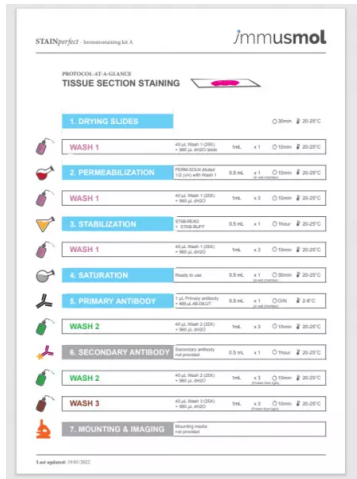
Full protocol [Download STAINperfect protocol for GABA staining](#)

Protocols-at-a-glance









[Complete Instructions for Use](#)

[Protocol-at-a-glance for cell cultures](#)

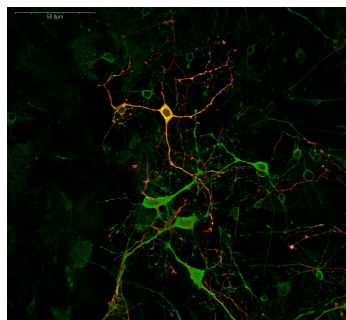
[Protocol-at-a-glance for whole mounts](#)

[Protocol-at-a-glance for tissue sections](#)

REFERENCES

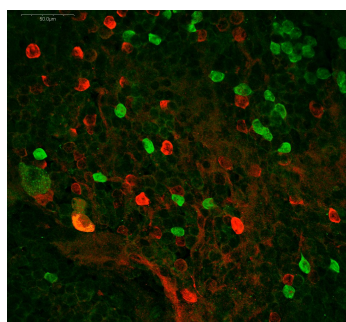
Product citations

Product pictures



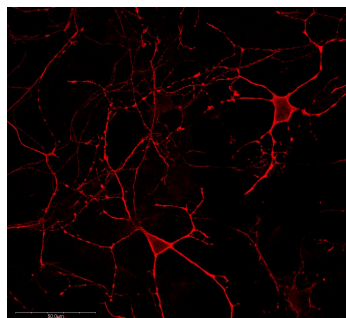
GABA and L-Serine in mouse primary neurons culture

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.



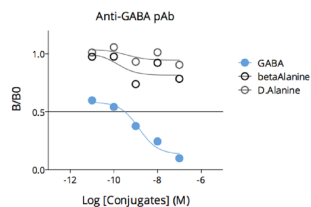
GABA and Dopamine immunostaining in crayfish eyetalk

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.



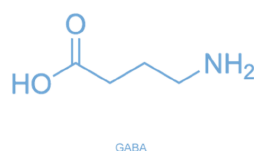
GABA immunostaining in mouse cortical primary neurones

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)

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 substantia nigra, the globus pallidus nuclei, the hypothalamus, the periaqueductal grey matter and the hippocampus.

Contact information

Immusmol
229 Cours de l'Argonne
33 000 Bordeaux - France
Tel: +33 (0) 5 6431 1170
www.immusmol.com

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

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